BLUE ROCK ENVIRONMENTAL, INC.

FILE COPY

November 28, 2005

Mr. Cody Walker Associate Engineering Geologist North Coast Regional Water Quality Control Board 5550 Skylane Boulevard, Suite A Santa Rosa, California 95403

Re: Dual-Phase Extraction Treatment Report

Cedar Stock Resort 45810 State Highway 3 Trinity Center, California RWQCB case # 1TTR033 Blue Rock Project No. NC-017

Dear Mr. Walker,

Blue Rock Environmental, Inc. (Blue Rock) has prepared this letter report on behalf of Mr. Cliff Johannsen. This report presents the results of a dual-phase extraction (DPE) treatment event conducted at the subject site located at 45810 State Highway 3 in Trinity Center, California (Figure 1). The DPE treatment was recommended by Blue Rock in a letter report dated July 22, 2005 (Second Quarter 2005 Groundwater Monitoring Report). In a subsequent telephone conversation, the North Coast Regional Water Quality Control Board (NCRWQCB) concurred with the DPE treatment recommendation and requested that a workplan describing the proposed event be prepared. Blue Rock subsequently prepared the Workplan for Mobile High-Vacuum Dual-Phase Extraction Treatment dated August 18, 2005. The workplan was approved by the NCRWQCB in a letter dated September 15, 2005. Blue Rock completed DPE treatment over the course of 5 days, starting on October 31, 2005 and concluding on November 4, 2005.

Following the background section below, DPE test results are presented beginning on page 4.

Background

Site Description

Cedar Stock Resort is located adjacent to Trinity Lake in Trinity County California (Figure 1). The site is bounded by open forest land with some residential development. Cedar Stock Resort consists of a developed dock and additional parking areas around the former UST locations and a Lodge/Restaurant above the site. There are also various buildings near the site used for rental cabins, boat storage and residences. The resort uses a septic system located approximately 500 feet north of the former UST locations for sewage disposal. Drinking water is supplied by a well located about 1/4 mile north of the former USTs. The two gasoline USTs were previously located on the eastern side of the marina parking area (Figure 2).

The site slopes moderately to steeply toward the east. The Trinity Lake shoreline (high water line at 2,370 feet elevation above mean sea level (msl)) comprises the eastern boundary of the property. To the west, the property rises to 2,600 feet in elevation.

Site History

Cedar Stock Resort was developed in 1962 as a boat launching and storage facility and resort destination. The site was leased from the U.S. Department of Agriculture (USDA) by Boots and Boats Inc. in the early 1970s. In 1980 or 1981, two 5,000-gallon underground gasoline storage tanks (UST) were installed to supply fuel to boat traffic on Trinity Lake. Fuel was delivered via above ground piping to dispensers located on the dock.

Site Investigation and Corrective Action History

In September 1994, the two 5,000 gallon USTs were removed by Evans Construction (Evans). As evidenced by analysis of soil removed from the excavation, concentrations of total petroleum hydrocarbons as gasoline (TPHg) ranged to 2,000 mg/kg. The tank cavity was overexcavated to a depth of approximately 40 feet below ground surface (bgs) to remove hydrocarbons acting as a source of groundwater contamination. Due to adverse site conditions no further overexcavation was performed. The excavation was subsequently backfilled with clean fill.

In an effort to evaluate the lateral extent of petroleum hydrocarbon impact to site soil and groundwater, Clearwater Group (Clearwater) supervised the installation of five soil borings (B-1 to B-5) and four monitoring wells (MW-1 to MW-4) in 1996 and 1997. Gasoline constituent contamination in soil and groundwater were detected in boring B-1 approximately 25 feet downgradient of the former excavation. Analysis of groundwater samples indicated concentrations of TPHg at 2,400 micrograms per liter (µg/L), MTBE at 2,000 µg/L, and benzene at 940 µg/L. A grab groundwater sample collected from boring B-5 (40 feet northeast of the UST excavation) indicated concentrations of TPHg at 1,900 µg/L, MTBE at 41 µg/L, and benzene at 160 µg/L. Quarterly groundwater monitoring and sampling of the monitoring wells was performed through the remainder of 1997 and continued through 1998. As the site was considered a low priority by the North Coast Regional Water Quality Control Board (NCRWQCB), no direction for additional quarterly monitoring was provided. Subsequently, no quarterly monitoring was performed in 1999. At the direction of Dean Prat of the NCRWQCB quarterly groundwater monitoring was resumed in January 2000. Well construction, cumulative investigative and quarterly groundwater monitoring data are presented in Tables 1 through 4.

On May 4, 2000, in an effort to better evaluate groundwater flow characteristics at the site, Clearwater supervised Diamond Core Drilling of Redding, California in the installation of two additional monitoring wells (MW-5 and MW-6) to the north and east of the former excavation. Well installation activities were approved verbally by Mr. Dean Pratt of the NCRWQCB. Results of this investigation are presented in Clearwater's *Monitoring Well Installation and Groundwater Monitoring Report Second Quarter 2000* dated July 18, 2000.

On March 4 and 5, 2002, Clearwater supervised the drilling four soil borings to a depth of approximately 60 feet bgs (Figure 2). The purpose of the proposed additional investigation was

to provide the data needed for the preparation of the required Corrective Action Plan (CAP). Results of this investigation are presented in Clearwater's Corrective Action Plan (CAP) / Sensitive Receptor Survey / Additional Investigation Report dated April 26, 2002. In a letter dated June 4, 2002, the NCRWQCB approved the CAP which outlined soil vapor extraction (SVE) as the preferred remedial alternative to treat sorbed-phase contamination and monitored natural attenuation for treating dissolved-phase contamination and requested the submittal of a workplan to perform an SVE pilot study.

Clearwater subsequently prepared and submitted a Workplan for Vapor Extraction Pilot Study dated August 10, 2002. The workplan was approved in a NCRWQCB letter dated September 9, 2002. The pilot study was performed in October 2002. The results of the monitored natural attenuation study were favorable; however, the results of the SVE test were not favorable. Therefore, low vacuum SVE was not considered to be a technically viable remedial alternative. Results of the pilot study and natural attenuation feasibility study were submitted in Clearwater's Second Quarter 2003 and Remedial Action Plan dated July 21, 2003.

In a letter dated September 25, 2003, the NCRWQCB concurred with Clearwater's evaluation of the monitoring data and recommendation to continue natural attenuation monitoring for a one year period. In the letter, the NCRWQCB requested a summary report be submitted following a one year period and should include an estimate of time for natural attenuation to restore beneficial uses of groundwater at the site and the evaluation of at least one additional remedial alternative and a cost comparison of the remedial alternatives.

In May 2004, Blue Rock was retained to continue site activities. Blue Rock performed the Second Quarter 2004 groundwater monitoring event and subsequently submitted the Remedial Action Plan Addendum / Summary Report / Second Quarter 2004 Groundwater Monitoring Report dated July 20, 2004 which conveyed the data requested in the September 25, 2003, NCRWQCB letter and requested the site be evaluated for closure. The NCRWQCB denied the closure request in a letter dated September 8, 2004 and requested groundwater monitoring be performed on a semi annual basis.

In the Remedial Action Plan Addendum, dated July 20, 2004, Blue Rock identified High-Vacuum Dual-Phase Extraction (HDPE) as the most promising remedial technology for the subsurface conditions, but concluded that the cost of a full-scale HDPE system installation and operation did not appear to be justified in light of the limited contaminant mass present (i.e. ~122 lbs. of TPHg in soil) and the documented natural attenuation of contaminants. Since that time, current investigation and monitoring data has suggested that natural attenuation alone may not result in timely achievement of groundwater quality goals, yet the estimated residual contaminant mass still did not appear to warrant the cost for installation of a full-scale HDPE remedial system. Therefore, Blue Rock recommended performing a temporary "hot-spot" remediation using a Mobile HDPE rig in an effort bring dissolved-phase concentrations near groundwater quality goals for future site closure.

DPE Treatment Event

Blue Rock completed a DPE treatment event on monitoring well MW-1 during the week of October 31 to November 4, 2005. During the DPE test, a total of 8 samples were collected for laboratory analysis: 5 process air samples, 1 process water samples and 2 water samples (pre and post treatment) from MW-1. DPE test equipment, methodology, and test results are further described below.

Purpose of DPE Treatment

Since 2002, gasoline hydrocarbons continue to impact groundwater in the vicinity of the former USTs and MW-1. Evaluation of natural attenuation processes shows that although groundwater contaminants are declining at predictable rates, they may not meet clean-up goals on their own in a timely fashion (i.e. 5 years or more).

Blue Rock proposed completion of "hot-spot" treatment with mobile HDPE unit to augment ongoing natural attenuation. The goal of "hot-spot" treatment is to further reduce the limited residual contaminant mass, in order to accelerate the reduction of contaminant concentrations and hasten regulatory closure of the site.

Air Permits

Because of the limited duration of the treatment event and because air treatment equipment is utilized to abate emissions, extraction events lasting 5 days or less are typically below the permitting threshold, thus, no air permit was necessary for this event.

Water Discharge Permits/Water Disposal

A total of approximately 1,800 gallons of water was produced by the DPE treatment event. Water discharge permits were not necessary because no water was discharged. Test produced water was contained onsite in a large poly tank and was subsequently transported to Seaport Environmental in Redwood City, California for disposal.

DPE Equipment

A mobile high-vacuum DPE unit was mobilized to the site. The truck mounted unit consisted of a 25-horsepower liquid-ring pump capable of producing 29 inches of mercury ("Hg) vacuum, and a thermal oxidizer capable of treating an air flow of 150 cfm. An onboard 45-kilowatt electric generator powered the equipment and a propane tank provided supplemental fuel for the thermal oxidizer. A unit intake hose was connected to the test extraction well through a vacuum cap attached to the wellhead. A flow sensor measured process air stream volumetric flow and a flow totalizer recorded gallons of water pumped. A schematic of DPE pilot testing equipment is presented in Figure 7.

DPE Test Procedures

Monitoring well MW-1 was utilized as the extraction well because previous monitoring data consistently indicates that it is the most impacted well. MW-1 is screened from 20 feet to 40 feet below grade.

Surrounding nearby monitoring wells MW-2, MW-3 and MW-5 were utilized as observations wells during the DPE treatment event. The observation wells are screened from 20 feet to 40 feet below grade.

Prior to testing, static depth to water and vacuum measurements were collected from the test and observation wells. Before testing, groundwater was measured at 25.67 feet below top of casing in MW-1.

During DPE treatment, test well MW-1 was utilized as the extraction well while the surrounding monitoring wells, were utilized for influence monitoring. The DPE intake hose was lowered through a port in an otherwise airtight expansion plug at the top of the well MW-1. The hose intake was set at approximately 30 feet bgs, for the first 2 hours of the test, and at approximately 39 feet bgs for the remainder of the test. MW-1 could not be further dewatered beyond 40 feet deep, the completed depth of the well. Surrounding monitoring wells were checked for vacuum influence using vacuum gauges. To monitor hydraulic influence, periodic depth to water measurements were also conducted on surrounding monitoring wells.

Dual-Phase Extraction Rates

Water and vapor (dual phases) were extracted from test well MW-1 by high vacuum applied with a liquid-ring pump. Pump vacuums of 24.8, and 25.0 "Hg column were applied to well MW-1. Under these pump vacuums MW-1 produced, respectively, water pumping rates of 0.31 and 0.16 gallons per minute (gpm), and well air flow rates of 78 and 73 standard cubic feet per minute (scfm) (Table 5).

Hydraulic Influence

Data produced from traditional aquifer testing (pump testing), is better suited for capture zone calculations. Data from short-term DPE treatment are typically insufficient to estimate a hydraulic capture zone, although can demonstrate hydraulic influence.

During the application of a sustained vacuum on MW-1, water level decreases on the order of hundreths of a foot were observed in the monitoring wells MW-2 and MW-3 (Table 1). However, based on the data collected, decreases in water levels of several hundreths of a foot in monitoring wells MW-2 and MW-3 were not consistent and not considered significant during the test. As demonstrated by the drawdown data sown in Table 5, depth to water in the observation wells actually increased slightly in response to the applied vacuum on MW-1at times during the event.

Vacuum Radius of Influence (under DPE treatment conditions)

Significant induced vacuums, vacuums greater than 0.1" H2O column, were not observed in observation well MW-5 at any vacuum step applied to test well MW-1. However, this observation well is also located the greatest distance away from MW-1 (~125 ft), which perhaps was outside the radius of influence (ROI) of the test well. However, MW-3 the second closest observation well, located approximately 100 feet from the test well, displayed significant induced vacuum of up to 2.4" H2O column. MW-2, although closer, had a maximum induced

vacuum of 0.41" H2O column. This may be due to the fact that the formerly excavated area lies in between MW-3 and MW-1 and the fill material within the former excavation cavity is less dense than surrounding undisturbed native soils. Based on these results, and similar tests done under similar conditions, the vacuum ROI of MW-1 is estimated to be approximately 125 feet under high-vacuum conditions (Figure 6) and appears to be uneven and skewed towards MW-3. A previous SVE test conducted on MW-1 resulted in the lack of a measurable ROI. Vacuum ROIs are typically greater for DPE compared with SVE, due to the much higher vacuums applied by DPE units.

Water and Air Sampling

Following a three casing volume purge completed prior to sampling, Blue Rock staff collected pre-test and post-test water samples directly from treatment well MW-1 using disposable sampling bailers. The water sample collected prior to the initiation of the treatment event on October 31, 2005 is considered the pre-test water sample. A post-test water sample was collected from MW-1 on November 4, 2005 following completion of the five day DPE treatment.

During the actual DPE test, a total of 6 samples were collected for laboratory analysis: 1 process water sample and 5 process air samples. Water samples were collected into preserved 40-ml VOA bottles and air samples were collected into 1-liter tedlar bags. All samples collected were labeled, documented on a chain-of-custody form, and shipped to Kiff Analytical (Kiff), a state-certified environmental laboratory located in Davis, California. Kiff analyzed all samples for TPHg, BTEX, and MTBE by EPA Method 8260B.

The 1 process water sample collected during the DPE test was considered a mid-fluent water sample because the extracted water had already been partially treated at the point in the DPE process where they are collected (Figure 7). Partial treatment is the result of the increased surface area and agitation of the entrained water as it passes through the system hosing and water knockout. This creates volatilization of contaminants from the water stream, which is also enhanced by the vacuum of the system.

Water and Air Sample Results

Concentrations of benzene, MTBE and TPHg were detected in the pre- and post- test water samples collected from MW-1. The post-test water sample collected from MW-1 was lower in concentrations of target analytes than the pre-test water sample, however, was within the lower range of MTBE concentrations reported for past samplings of this well. The pre-treatment concentrations of benzene, MTBE and TPHg were 5.8 μ g/L, 240 μ g/L and 760 μ g/L respectively. The post-treatment concentrations were somewhat lower at 1.6 μ g/L, 210 μ g/L and 260 μ g/L respectively (Table 6).

The DPE system mid-fluent sample contained MTBE and TPHg at concentrations of 28 and 250 μ g/L, respectively. Low xylene concentrations were also detected in the mid-fluent water sample.

Process influent air sample TPHg concentrations ranged from 170 parts per molar volume (ppmv) to 32 ppmv and MTBE concentrations ranged from 0.5 to 1.6 ppmv (Table 7). In general, TPHg contaminant concentrations in the process air stream decreased as treatment proceeded, while MTBE concentrations in the process air stream increased as treatment proceeded.

TPHg and MTBE Extraction Rates

Based on discrete water sample data and water pumping rates, TPHg removal rates ranging from approximately 0.002 to 0.001 pounds per day (lbs/day), and MTBE removal rates ranging from approximately 0.004 to 0.001 lbs/day were achieved from the liquid phase extracted from MW-1 (Tables 8 and 9).

Based on a evaluation of discrete air sample data and process air flow rates, TPHg removal rates ranging from 4.2 to 0.7 lbs/day, and MTBE removal rates ranging from 0.03 to 0.01 lbs/day were achieved from the vapor phase extracted from MW-1 (Tables 8 and 9, Figures 8 and 9).

Conclusions and Recommendations

Conclusions

The DPE treatment was successful in demonstrating that TPHg, BTEX, and MTBE can be removed from the subsurface using this technology. TPHg removal rates ranging from 4.2 to 0.7 lbs/day, and MTBE removal rates ranging from 0.03 to 0.01 lbs/day were achieved from the vapor phase extracted from MW-1. Based on the data collected, approximately 10 lbs. of sorbed-phase gasoline range hydrocarbons were removed from the subsurface during the five day DPE treatment. As is typical, mass was more effectively extracted in vapor phase rather than in liquid phase.

The DPE treatment appears to have been successful at lowering concentrations of target analytes at the extraction point based on the results of the pre treatment and post treatment samples collected from MW-1.

The high-vacuum unit used in this DPE treatment event produced a greater vacuum radius of influence, compared to the ROI of the previous SVE test. A greater ROI means a greater lateral reach of a given extraction well with regards to effecting a cleanup. Greater well air flow rates and TPHg/MTBE mass removal rates were also achieved in the DPE treatment in comparison with the previous SVE test.

The DPE unit also demonstrated the ability to address contamination below water table, as the test well, which began with approximately a 15-foot water column, was easily dewatered at maximum pumping rate of approximately 0.3 gpm (equivalent to approximately 432 gallons per day). A capture zone was not calculated for this study. However, some water level decreases were measured in surrounding observation wells, indicating a cone of depression forming around the test well under (vacuum) pumping conditions. This may indicate some hydraulic control of the plume is possibly created by the vacuum pumping/dewatering of the treatment well. The

general depression of the water table under pumping conditions also effectively increases the vadose zone, which is in turn may be remediated by the vapor removal part of the DPE process.

Recommendations

Based on the data collected during this DPE treatment event, Blue Rock recommends the following.

- The groundwater monitoring program should be changed from semi-annual to quarterly to better track trends in the magnitude and extent of the residual dissolved-phase plume following the DPE treatment. The next quarterly groundwater monitoring event is scheduled for December 2005.
- If continued quarterly groundwater monitoring demonstrates that the DPE treatment was
 effective in allowing natural attenuation processes to reduce concentrations of target analytes
 to water quality goals with in a reasonable time frame, than the site should be reevaluated for
 no further action after at maximum one additional year of quarterly monitoring.
- If continued quarterly groundwater monitoring demonstrates that the rate of natural attenuation continues to be insufficient to warrant a no further action determination, than the site should be evaluated for the implementation of additional DPE extraction events.

Certification

This report was prepared under the supervision of a California Professional Geologist at Blue Rock. All statements, conclusions, and recommendations are based upon published results from past consultants, field observations by Blue Rock, and analyses performed by a state-certified laboratory as they relate to the time, location, and depth of points sampled by Blue Rock. Interpretation of data, including spatial distribution and temporal trends, are based on commonly used geologic and scientific principles. It is possible that interpretations, conclusions, and recommendations presented in this report may change, as additional data become available and/or regulations change.

Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Blue Rock has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

Sincerely, Blue Rock Environmental

Andrew LoCicero Project Manager Brian Gwinn, P.G. Principal Geologist

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Distribution List

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List of Attachments

Figures

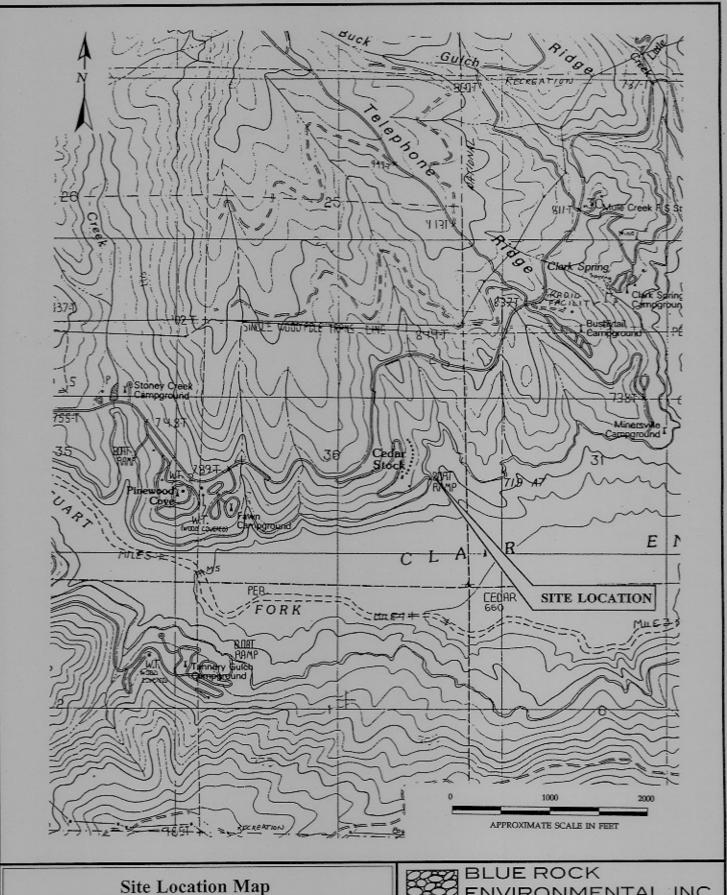
- 1. Site Location Map
- 2. Site Plan
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- 7. High Vacuum DPE Ttreatment Equipment Schematic
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- 4. Groundwater Elevation and Analytical Data
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- 6. Water Sample Analytical Results
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- 8. TPHg Extraction Rates
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Appendix

- A. Certified Analytical Reports (water samples)
- B. Certified Analytical Reports (air samples)
- C. Sorbed Phase Mass Calculation (pre treatment)



Site Location Map

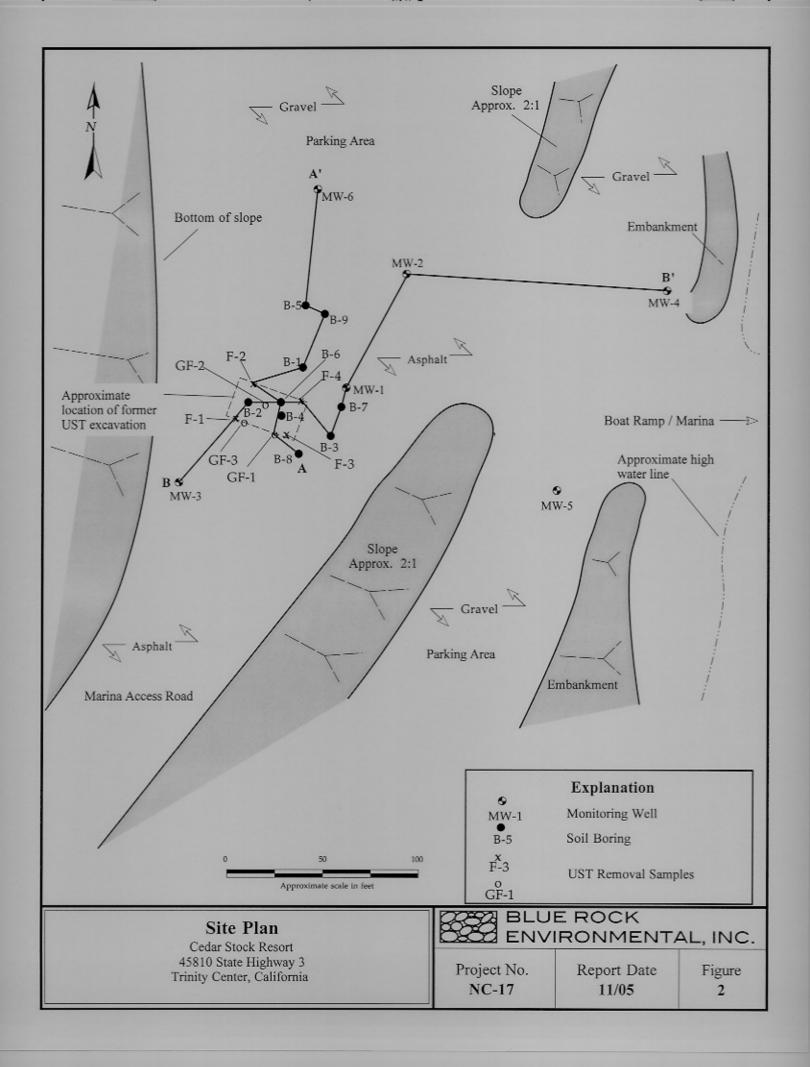
Cedar Stock Resort 45810 State Highway 3 Trinity Center, CA

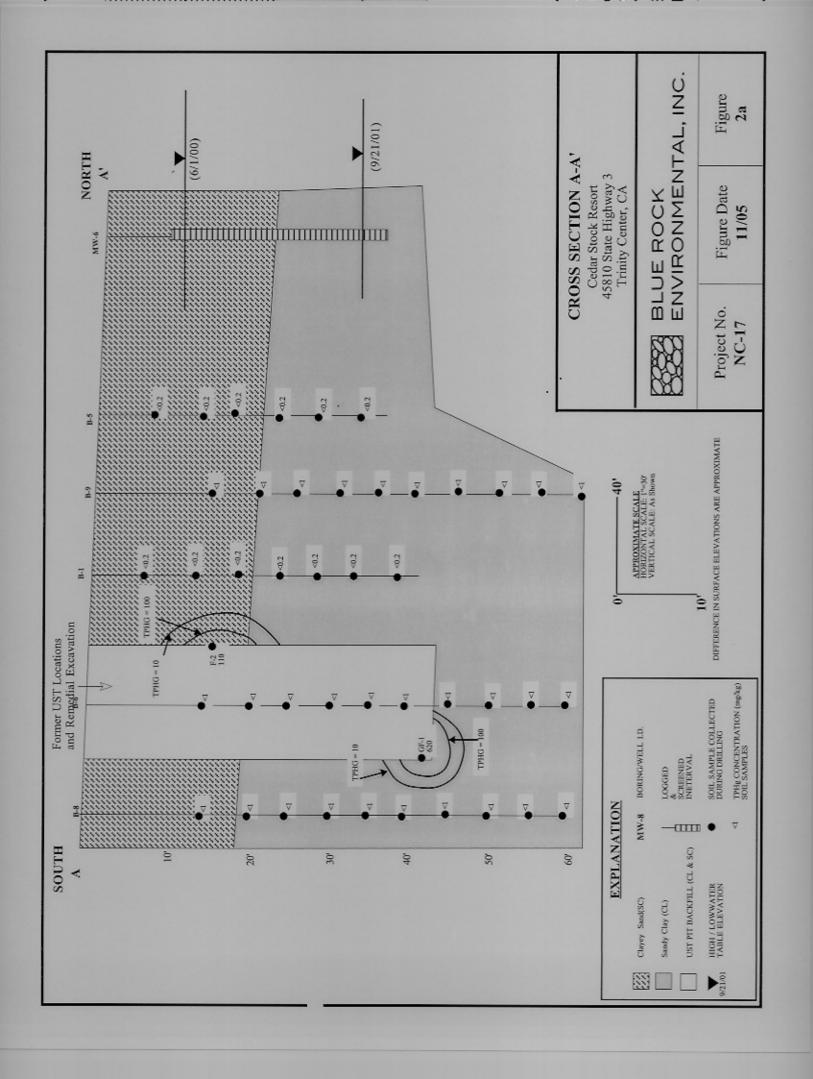
ENVIRONMENTAL, INC.

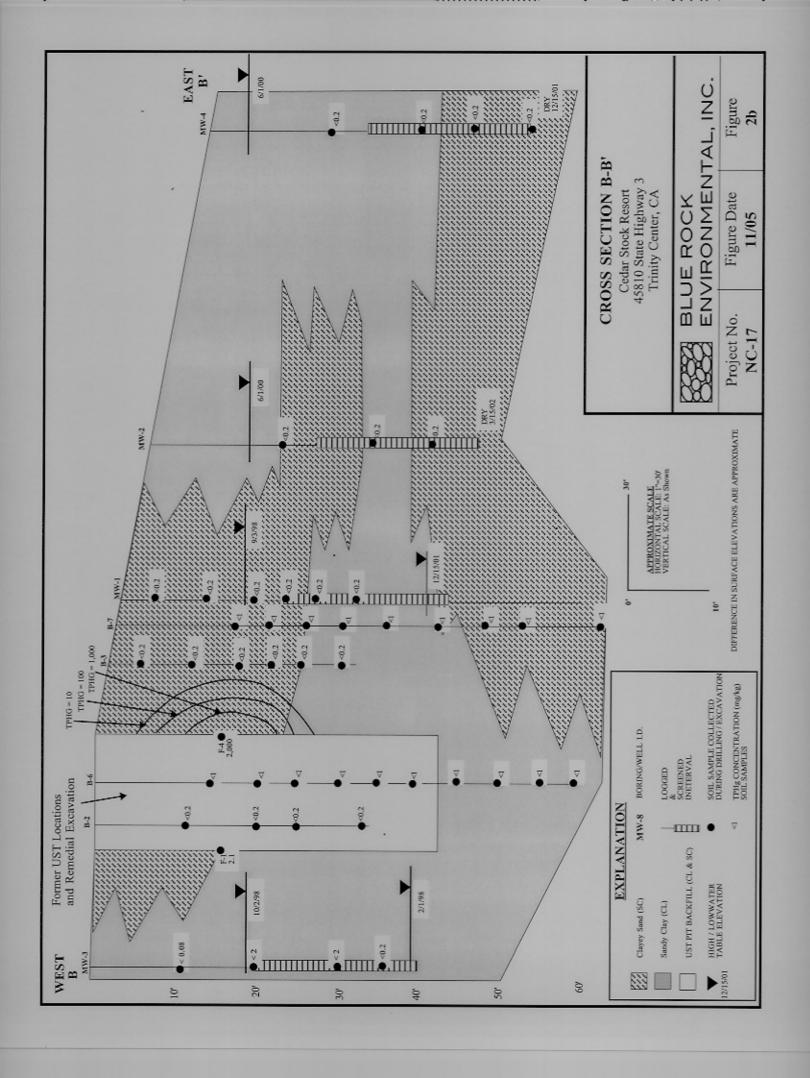
Project No. NC-017

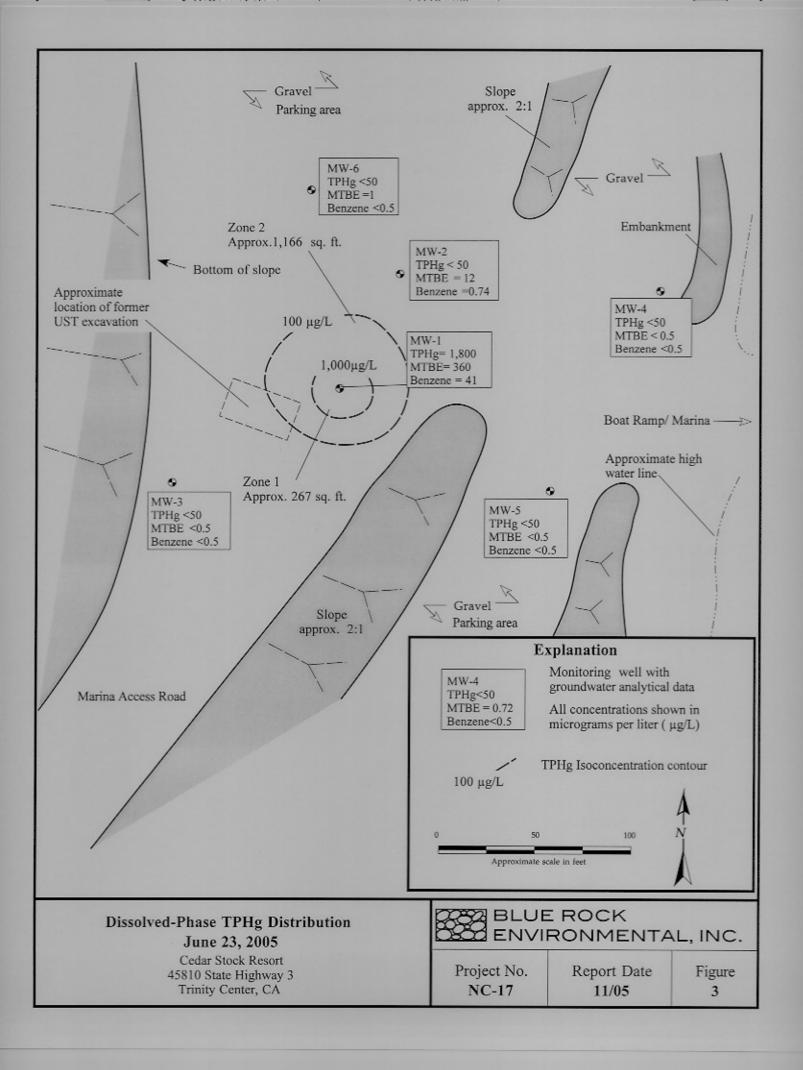
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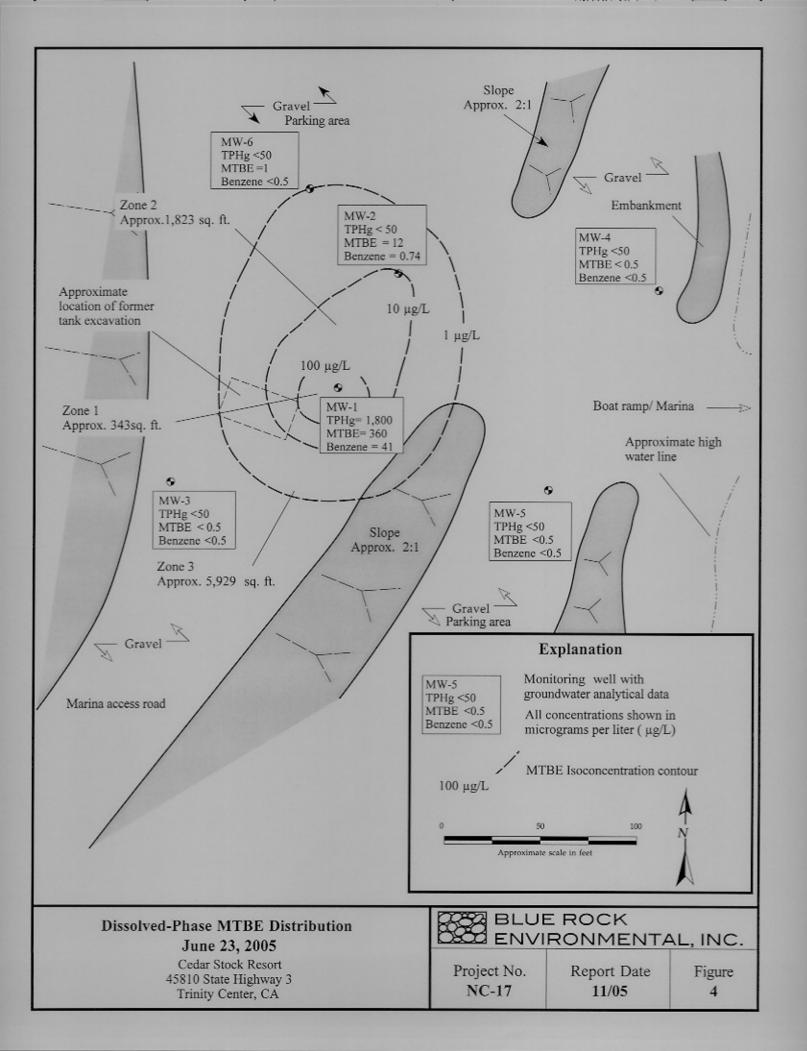
Figure 1

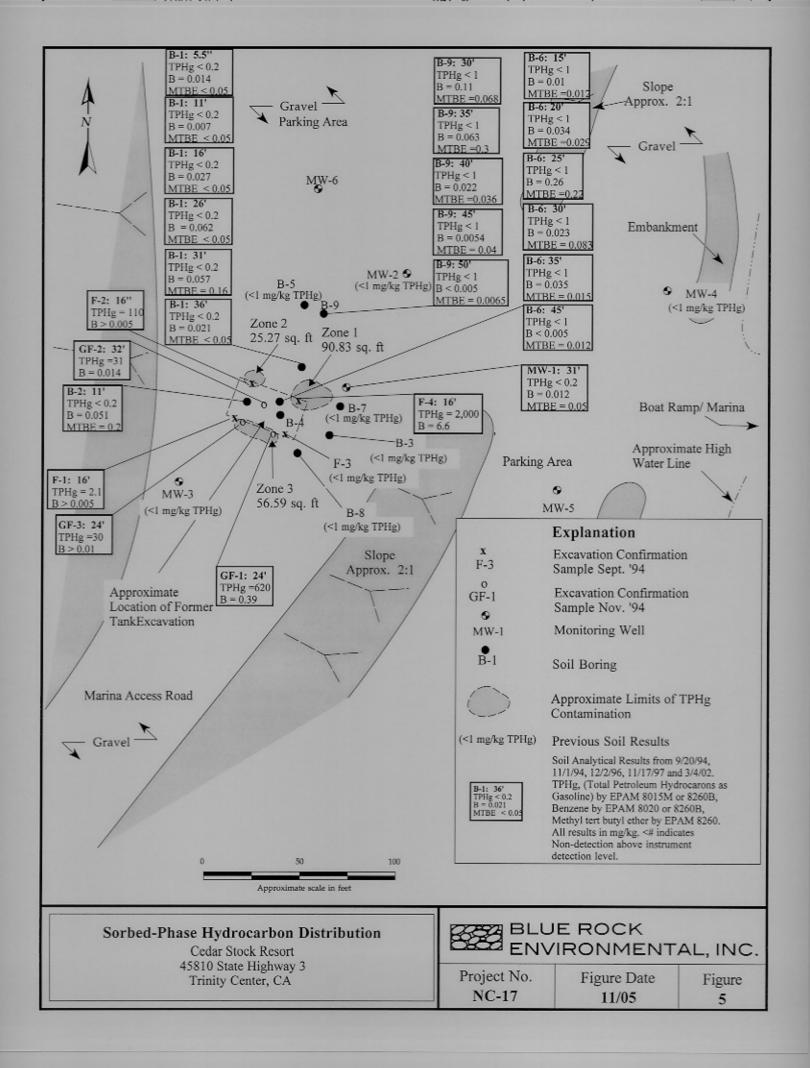


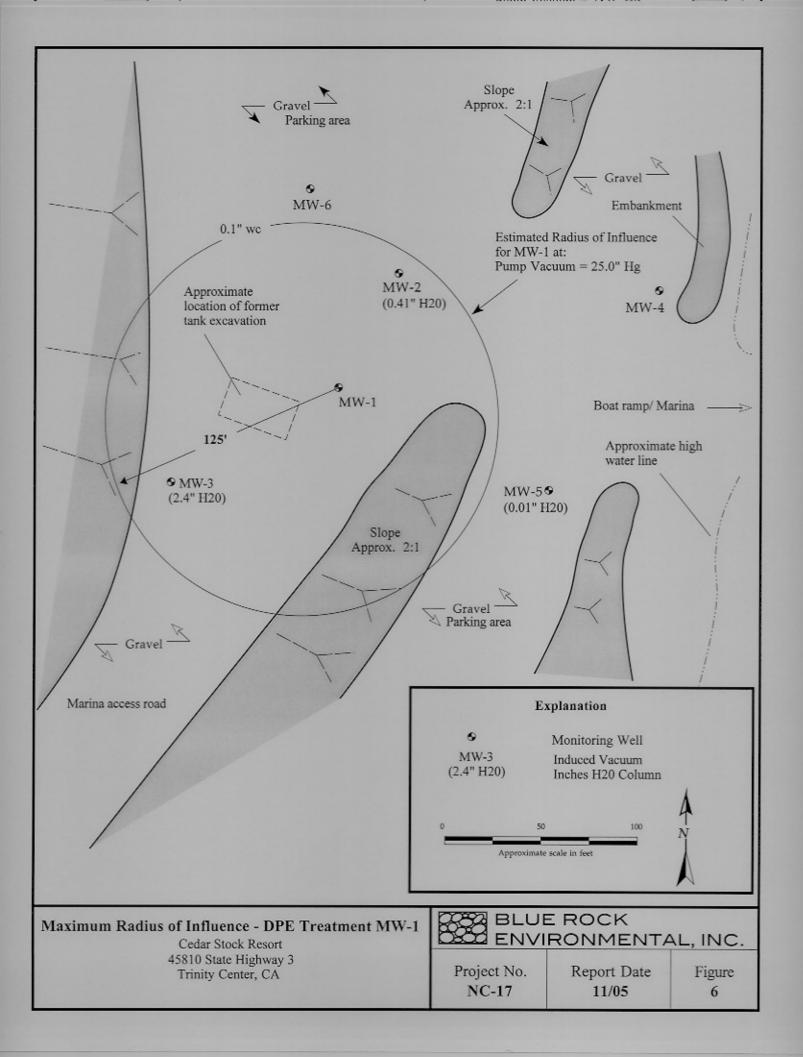












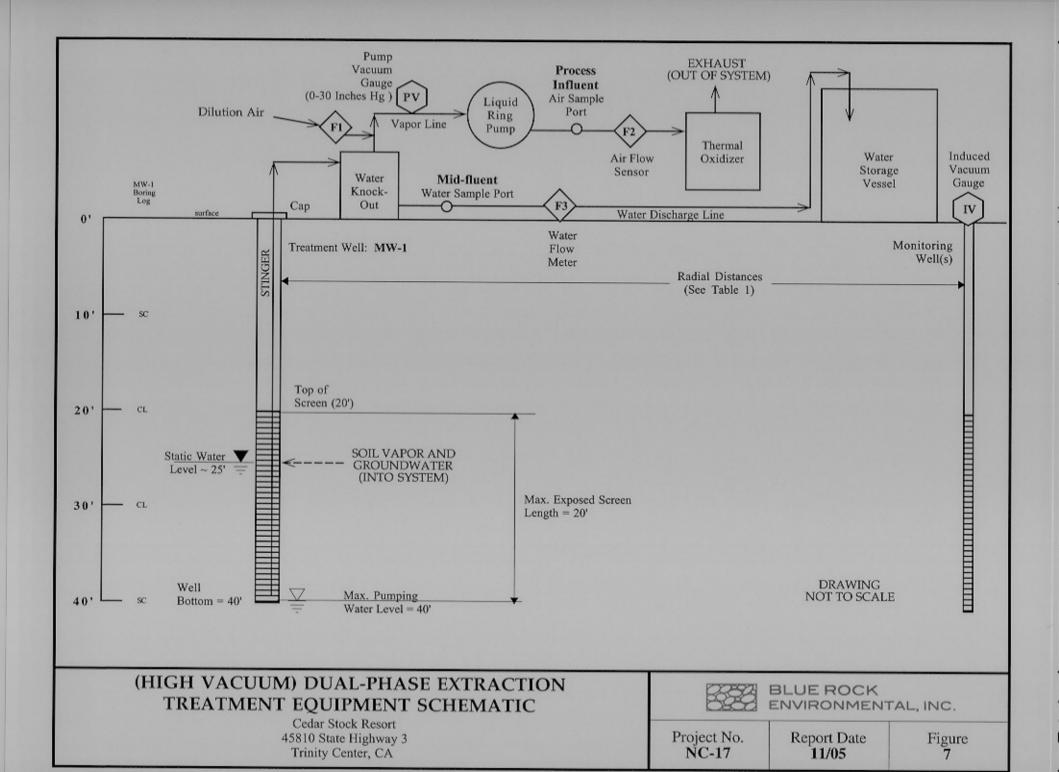


Figure 8: TPHg Removal Rates From DPE Treatment of Monitoring Well MW-1 (based on discrete air sample analytical and flow monitoring data)

Cedar Stock Resort, Trinity Center, CA

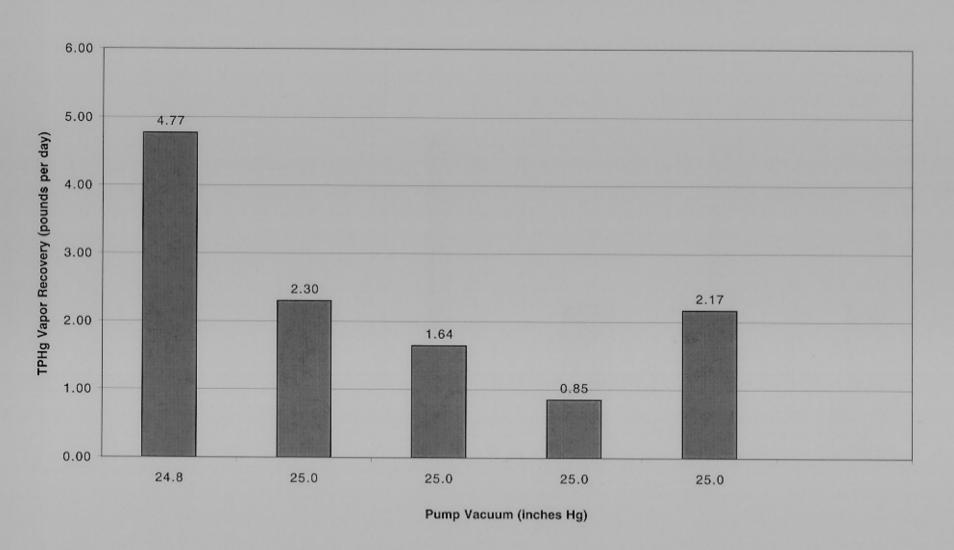


Figure 9: MTBE Removal Rates From DPE Treatment of Monitoring Well MW-1 (based on discrete air sample analytical and flow monitoring data)
Cedar Stock Resort, Trinity Center, CA

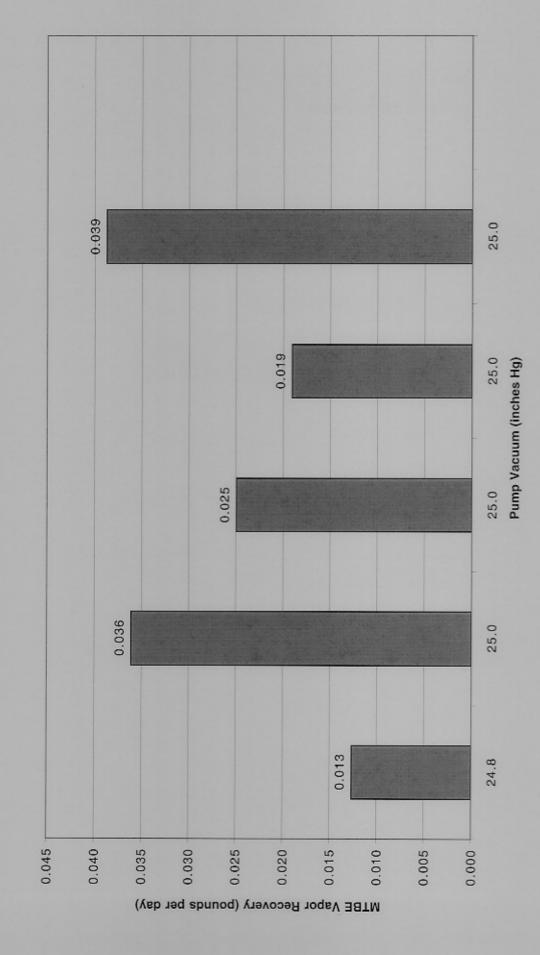


Table 1 WELL CONSTRUCTION DATA Cedar Stock Resort 45180 State Highway 3

				Thin Pr	45180 State Highway 3 Trinity Center, California Project No. NC-017	way 3 ifornia 017				
Well	Date Intstalled	Intstalled	Casing Diameter (inches)	Total Depth (feet)	Blank Interval (feet)	Screened Interval (feet)	Slot Size (inches)	Filter Pack (feet)	Bentonite Seal (feet)	Cemer (feet)
MW-1	11/18/97	Clearwater	74	40	0-50	20-40	0.02	18-40	16-18	0-16
MW-2	11/18/97	Clearwater	2	40	0-20	20-40	0.02	18-40	16-18	0-16
MW-3	11/18/97	Clearwater	2	9	0-20	20-40	0.02	18-40	16-18	0-16
MW-4	11/18/97	Clearwater	2	40	0-50	20-40	0.02	18-40	16-18	0-16
MW-5	8/30/00	Clearwater	7	35	0-15	15-35	0.02	14-35	12-14	0-12
MW-6	8/30/00	Clearwater	7	35	0-15	15-35	0.02	14-35	12-14	0-12

Table 2 HISTORIC ANALYTICAL DATA TANK REMOVAL AND EXCAVATION

Cedar Stock Resort 45810 State Highway 3 Trinity Center, CA Project No. NC-017

Soil

Sample Name	Sampling Date	Sample Location	Sample Depth	TPHg (ppm)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
F-1	9/20/94	South west side of Exc.	16'	2.1	<5.0	16	56	51
F-2	9/20/94	North West side of Exc.	16'	110	<5.0	150	520	4,600
F-3	9/20/94	South East side of Exc.	16'	<1.0	<5.0	<5.0	<5.0	<10
F-4	9/20/94	North East side of Exc.	16'	2,000	6,600	68,000	21,000	132,000
C-1 Composite	9/20/94	Stockpile	n/a	110	<25	150	260	2,750
GF-1	11/1/94	South East side of Exc.	42'	620	390	8,900	5,200	35,000
GF-2	11/1/94	Center of Exc.	32'	31	14	49	74	640
GF-3	11/1/94	South West side of Exc.	24'	30	<10	89	91	860
Composite A	3/30/95	Stockpile	n/a	0.11	<2.5	<2.5	<2.5	<5.0
Composite B	3/30/95	Stockpile	n/a	0.84	< 0.5	< 0.5	< 0.5	<1.0
Composite C	3/30/95	Stockpile	n/a	< 0.05	< 0.5	< 0.5	< 0.5	<1.0
Composite D	3/30/95	Stockpile	n/a	0.11	< 0.5	< 0.5	< 0.5	23
Composite E	3/30/95	Stockpile	n/a	< 0.05	< 0.5	< 0.5	< 0.5	<1.0

TPHg: Total petroleum hydrocarbons as gasoline

B: Benzene

T: Toluene

E: Ethylbenzene

X: Xylenes (total)

ppb: parts per billion = $\mu g/l = \mu g/kg = 0.001$ ppm

ppm: parts per million = $mg/kg = \mu g/g = mg/l = 1000$ ppb

ND: Not detected at or below the method detection limit as shown.

n/a: not applicable

Table 3
SOIL BORING
ANALYTICAL DATA
Cedar Stock Resort
45810 State Highway 3
Trinity Center, CA
Project No. NC-017

Table 3
SOIL BORING
ANALYTICAL DATA
Cedar Stock Resort
45810 State Highway 3
Trinity Center, CA
Project No. NC-017

Sample Sample TPHg MTBE Be	TPHg MTBE		Be	Benzene	Toluene	Ethylbenzene Xvle	Xvlenes	DIPE	ETBE	TAME	TBA	Methanol	Ethanol
Date (mg/kg) (mg/kg) (mg/kg) (mg/kg)	(mg/kg) (mg/kg) (mg/kg) (mg/kg)	(mg/kg) (mg/kg)	(mg/kg)		(mg/	(F)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
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11/17/97	<0.2 <50 <5	8		\$	V	2	8	1		:	1	1	
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36.0 11/1897 <0.2 <50 <5 <5	40.2 <50 <5	۵.		٨		8	8	1	1	:	1	1	1
11.0 11/1897 <0.2 <50 <<	09	\$ \$	2	٧.		95	*						
11/18/97 <0.2	\$ \$0.0						, 4				:		
11/1897 <02 <50 <5	40.2 \$50 \$5	2 2	200		· V	7 50	7 8	1	1	:			1
11/1897 <0.2 <50 <5 <5	40.2 <50 <5 <5	\$ \$			V	2	\$	1	1	:	1	1	:
11/18/97 <0.2 <50 <5	40.2 <50 <5 <5	\$ \$	\$		V	2	\$	1	1	:	:	1	
46.0' 11/18/97 <0.2 <50 <5 <5	<0.2 <50 <5 <5	\$	\$			2	\$	1	1	:		1	
3/4/02 <1 0.012 0.01 <0.005	0.012 0.01 <0.005	0.01 <0.005	<0.005		8	<0.005	<0.005	<0.005	<0.005	<0.005	0.0056	<0.2	10.05
3/4/02 <1 0.029 0.034 0.014	0.029 0.034 0.014	0.034 0.014	0.014		0.0	0.0089	0.061	<0.00>	<0.005	<0.005	<0.0025	⊽	<0.05
3/4/02 <1 0.22 0.26 <0.005	0.22 0.26 <0.005	0.26 <0.005	<0.005		0.0	0.0089	0.015	<0.00>	<0.005	<0.005	0.035	⊽	<0.05
3/4/02 <1 0.083 0.023 <0.005	0.083 0.023 <0.005	0.023 <0.005	<0.005		A	<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.2	<0.02
3/4/02 <1 0.015 0.035 <0.005	0.015 0.035 <0.005	0.035 <0.005	<0.005		A	<0.005	<0.00>	<0.00>	<0.005	<0.005	<0.005	<0.2	<0.01
3/4/02 <1 <0.005 <0.005 <0.005	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		A	<0.005	<0.005	<0.00>	<0.00>	<0.005	<0.005	<0.2	<0.01
3/4/02 <1 0.012 <0.005 <0.005	0.012 <0.005 <0.005	<0.005 <0.005	<0.005		8	<0.005	<0.00>	<0.005	<0.005	<0.005	0.0095	<0.2	<0.01
3/4/02 <1 <0.005 <0.005 <0.005	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		0.0	<0.005	<0.005	<0.005	<0.00>	<0.005	<0.005	<0.2	<0.01
3/4/02 <1 <0.005 <0.005 <0.005	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		0.0 0.0	500	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.01
60.0' 3/4/02 <1 <0.005 <0.005 <0.005 <0.005	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		0.0	90	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.01
3,4,02 <1	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		<0.0>	90	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	-0.01 -0.01
200	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		>0.00	50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	10.0>
	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		<0.00	35	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	10.05
	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		<0.0>	95	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	0.01
3/4/02 <1	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		>0.0>	900	<0.005	<0.005	<0.00>	<0.005	<0.005	<0.2	0,015
3,4/02 <1 <0.005 <0.005	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		>0,0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.01
3/4/02 <1 <0.005 <0.005 <0.005	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		,0>	<0.005	<0.005	<0.005	<0.00>	<0.005	<0.005	<0.2	<0.01
3/4/02 <1 <0.005 <0.005 <0.005	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		0,	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.01
<0.005	<0.005 <0.005 <0.005	<0.005 <0.005	<0.005		V	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.01

ANALYTICAL DATA SOIL BORING Table 3

Cedar Stock Resort 45810 State Highway 3 Trinity Center, CA Project No. NC-017

Sample Name	Sample Depth	Sample Date	(mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Methanol (mg/kg)	Ethanol (mg/kg)
B-8	15.0'	3/4/02	v	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.01
B-8	20.0	3/4/02	~	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.01
B-8	25.0'	3/4/02	~	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.01
B-8	30.0°	3/4/02	⊽	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	10.05
B-8	35.0	3/4/02	~	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	40.2	10.00
B-8	40.0	3/4/02	⊽	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	10.0>
B-8	45.0	3/4/02	⊽	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	40.2	1000
B-8	50.0	3/4/02	⊽	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	1000
B-8	55.0	3/4/02	∀	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	1000
B-8	0.00	3/4/02	⊽	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	40.01
B-9	15.0	3/4/02	⊽	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	10.0>
B-9	20.07	3/4/02	⊽	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	10.00
B-9	25.0	3/4/02	~	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.0
B-9	30.0	3/4/02	⊽	890'0	0.11	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.01
B-9	35.0	3/4/02	⊽	0.3	0.063	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.028	<0.5	<0.05
B-9	40.0	3/4/02	⊽	0.036	0.022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.2	<0.02
B-9	45.0	3/4/02	⊽	0.04	0.0054	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.0>
B-9	50.0	3/4/02	⊽	0.0065	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.0>
B-9	55.0'	3/4/02	v	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.0>
B-9	.0.09	3/4/02	⊽	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.2	<0.0>

TPHg (ug/L) 2,400 <50 1,900 12/22/96 11/19/97 11/18/97 1.1.1 B-5 B-1

Xylenes (ug/L)

Benzene Toluene Ethylbenzene

MTBE (ug/L)

Groundwater

(ug/L)

(ng/L)

(ng/L)

577

8 0 5 € 5

4 0 5 29

940 160 160

2000

TPHg: Total petroleum hydrocarbons as gasoline MTBE: Methyl t-Butyl Ether

ng/kg: micrograms per kilogram = parts per million ug/L: micrograms per liter = parts per billion <###! Not detected at or below the method detection limit as shown.

Benzene: by Method 8260B Toluene: by Method 8260B

Ethylbeuzeen: by Method 8260B
Xylenes: by Method 8260B
DIPE: Di-Isopropyl Ether by Method 8260B
TAME: Tertiary Annyl Methyl Ether by Method 8260B
ETBE: Ethyl Tertiary Butyl Ether by Method 8260B
TBA: Tertiary Butyl Alcohol by Method 8260B
"-": Not analyzed, available, or applicable

GROUNDWATER ELEVATION AND ANALYTICAL DATA Colds Stock Resort 45810 Stock Highway 3 Trinity Center, California Project No. NC-017

Well No.	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg (pg/L)	Benzene (µg/L)	Toluene (ug/L)	Ethylbenzene (µg/L)	Xylenes (ug/L)	MTBE (µg/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ng/L)	TAME (ug/L)	Methanol (ng/L)	Ethanol (ug/L)
MW-1	11/23/97	2383.55	28.41	2355,14	4,500	3,100	=	13	36	2,200	-				1	1
	12/22/97	2383.55	29.06	2354,49	:	:	1	1	1	1	-	:	:	1	1	1
Sereen	2/1/98	2383.55	31,46	2352,09	:	:	1	1	1	1	***		:	1	1	
20-40	2/26/98	2383.55	34.36	2349,19	2,300	65	<0.5	9.0	500	390		:	:	1	1	
	3/14/98	2383.55	32.68	2350,87	1		:	1		:	:	:	:	,	ı	
	4/25/98	2383.55	26.59	2356,96	1	1	1	1	1		:	:	:	,	1	1
	86/91/5	2383.55	24.12	2359.43	910	180	7.2	1.3	6.7	011	***	:	:	-	1	
	86/9/9	2383.55	24,79	2358,76	1	1		1	1	1	***	:		,	1	,
	7/18/98	2383.55	22.23	2361.32	1	1	:	1	;	:	**	:	1	,	1	1
	973.98	2383.55	18.81	2367.74	8	35	<0.5	40.5	0.65	26	:	:	:	,		
	10/2/98	2383.55	16,44	2367.11	1	1	1	1	,	:	-	:	1	,		
	11/27/98	2383.55	23.77	2359.78	1	1	:	1	;		:	:	1	,	,	
	12/15/98	2383.55	21.18	2362.37	1,100	260	4.4	5.6	7.3	96		:		,	,	
	1/11/00	2383.55	23.25	2360.30	17,000	4,600	11	320	254	1,700		:	1	,	,	1
	5/4/00	2383.55	18.29	2365.26	1	1	:	:	:		:	:	1	:	:	-
	00/1/9	2383.55	15.97	2367.58	3,140	2,250	6'9	62	89	198	:			:	,	1
	9/26/00	2383.55	21.75	2361.80	11,900	4,750	17	174	127	2,930	:	:	1	;	,	
	12/22/00	2383.55	25.49	2358.06	4,890	1,620	7.6	28.2	36.5	1.860	:	:	1	:		
	3/30/01	2383.55	27.05	2356.50	1,900	1,130	2.5	1.6	3.1	939	:	:			: :	1 1
	6/13/01	2383.55	26.04	2357.51	4,700	1.400	3	77	1.7	1.100						
	9/21/01	2383.55	28.73	2354.82	4,300	1.400	45		V	1.200	8.4	**	30		2000	
	12/15/01	2383.55	36.39	2347.16	410	18		~		160	1	7 7	7 7	7 5	2000	3 9
	3/15/02	2383.55	29.76	2353.79	2.400	440	44			1.400				7	20,110	210
	6/26/02	2383.55	26.78	2356.77	8,600	1.600	012	01×	010	1 200						
	9/25/02	2383.55	29.38	2354.17	008'9	1.300	×10	900	017	1.800					:	
	12/12/02	2383 44	Do	-	-	and the		210	210	7,000		ı	1			1
	(3/20/2003)	2421.70	12.42	2389.28	<500		. 7	: *			1		1		:	1
	601100	2421.70	23.63	2300 00	949	7:	7 7	2.5	2.1	1,400	1			:	:	
	0.74m3	OT 1000	33.43	220000	3 300	91.	7.7	7.7	7 1	000	1	1	:	:	:	1
	120.5003	2431.30	37.04	2303.35	3,500	955	75	37	27	011	1	1		:	:	1
	3,000,00	2421.70	24.41	3307 30	3,000	177	7 7	7 7	7 7	200	1	1		:	:	1
	60.4004	2431.70	20.13	2401.69	2,000	- 00	7 7	7 .	7	010	1	1	1	1.	:	1
	1205004	2421.70	20.00	2001.00	0001	99	07	3.2	S.15	410	1	1	1	1	:	:
	10100	001252	20,00	25.1952	1,400	9:	7	7	7	260		1	1	1	:	;
	CONTRACT	07.1262	00'47	100000	1,200	=	000	40.5	40.5	360		1	:	1		
C.WW	11171.07	2260.31	200													
-	1202002	2280 21	1							1		1	;	1	:	
Connen	211.00	2700.11	6		1	1			1	1		1		1	:	
octon	063130	2300.11	í.			1	:		;	1	1	1	1	1	-	:
06-09	27.26798	779977	5	1	-	1	:			1				1	1	1
	3/14/98	770957	5	-	1	1	1		:	1			:	1	;	1
	4/22/98	7770957	24.44	2330.27	1	1	1		:	1	1	1	:	1		
	5/16/98	2380.71	22.21	2358.50	Q20	903	<0.5	40.5	<0.5	٧			:	1	-	1
	8698	2380.71	22,63	2358,08	1	1	1	:	:	1	-	:	:	1	:	1
	7/18/98	2380.71	21.20	2359.51	:		1	:	:	:			:	1	:	1
	96368	2380.71	17.80	2362.81	950	40.5	<0.5	<0.5	<0.5	7		:	:	1	:	1
	10/2/98	2380,71	17.21	2363.50			1	:	-1	:	1	1	:	1		;
	11/27/98	2380.71	26.50	2354.21		:	1	:	-	:		:	:	1	:	;
	12/15/98	2380.71	27.75	2352.96	<50	<0.5	<0.5	<0.5	<0.5	7		ः		1	:	
	00/11/1	2380.71	33.57	2347.14	880	34	7	<0.5	~	170		:	:			
	5/4/00	2380.71	16.67	2364.04	-	***	1	:	:	-	*	:	:	1		-

Table 4 GROUNDWATER ELEVATION AND ANALYTICAL DATA Code Stock Resort 45810 State Highway 3 Trainly Center, Coliforns Project No. NC-017

Well Sampling No. Date	(feet)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ng/L)	(µg/L) (µg/L)	(ng/L)	(µg/L)	(ug/L)	(µg/L)	(µg/L)	(µg/L)
MW-2 6/1/00		12,70	2368,01	08>	<0.3	<0.3	<0.3	9.0	Q		1	1			:
			2346.92	1,430	74	<0.3	403	9'0>	562	:	1	1	:	:	:
Screen 12/22/00			:	1	1	:	1		:	:	1		:	:	:
		39,18	2341.53	1470	39.5	<0.3	<0.3	9°0>	453	:	1	:		:	:
6/13/01	2380,71		2347.76	520	19	⊽	- I>	1.1	390		1	1	:	:	:
9/21/01			1	1	1	1	1	:	:	:			:	:	:
12/15/01			1	1		:	1	1	;	:	:	1		:	
3/15/02	2380,71		1	1	1	1	1	1	:	:		1	:	:	:
6/26/02		34.02	2346.69	300	=	<0.5	40.5	<0.5	280	:		1	;	:	:
9/25/02	-		;	1	1	1		:	:		1			:	
12/12/03			1	1			,	;							
(3/20/2003)	-		7181 07	95	400	500	36	>0>	90						
10109			240100	3 9	3 4	000	7	000	6 6						
0011/05			061047	3 5	0	50.5	000	<0.5	30	ż		1		:	:
W24/US			16/267	180	17	<0.5	40.5	<0.5	82		1			:	1
12/15/05			1	1				:	;	1	1		:	:	:
3/4/04			2390.23	200	1.8	<0.5	40.5	<0.5	46	1	1		:	:	1
6/14/04			2396.70	050	<0.05	<0.5	40.5	<0.5	1	1	1		:		:
12/15/04			2378.97	050	<0.5	<0.0	40.5	<0.5	<0.5	1	1	:	:		:
6/23/05	2418.91	28.11	2390.80	<50	0.74	<0.0	40.5	<0.5	17	1	1		:	:	
MW-3 11/23/97	-	38.75	2350.20	950	<0.5	40.5	40.5	Q	16	1	:	:	:	:	:
12722797	-		2349.15		:	1		:	:	1	. 2		:	:	
Screen 2/1/98		39.64	2349.31	:	:	1	:	1	:	. 1			:	:	:
		36.06	2352.89	050	<0.5	9.0	0.7	<0.5	45	1		:	:	:	:
3714/98			2354.19		:	1	:	:	:	1	:				:
4725/98			2359.89		1	1	:	:	:	1		:		***	
5/16/98			2361.70	99	<0.5	<0.5	<0.5	<0.5	20	1				:	:
86,9/9			2360.81	:	:	:		1	1	1	:		:		:
7/18/98		26,18	2362.77	:	:	:	:	:	:	1	:	;		:	:
9/2/98			2368.34	050	<0.5	<0.5	<0.5	<0.5	< × ×	1	1	:		:	
10/2/98			2368.98	:	:	1		1	:	1	:	:	:	:	1
11/27/98			2362.71	:	:	;	:	1	:	1	:	,	:	:	
12/15/98			2361.37	<50	<0.5	<0.0	<0.5	<0.0>	<5	1	:		:	;	:
1/11/00		30.96	2357.99	95	<0.5	<0.5	<0.5	<0.5	<5>	1	:	1	:	:	:
2/4/00	_		2365.53		:		,		:	1		:		:	
00/1/9		20.53	2368.42	95	<0.3	<0.3	<0.3	9'00	3		:	:		:	
9/26/00			2360.03	99	<0.3	40.3	<0.3	9'00	9'6	1	1			1	,
12/22/00			2353.92	050	<0.3	<0.3	<0.3	9'0>	0	1	1	:		:	1
3/30/01			2351.99	99	<0.3	<0.3	<0.3	9'0>	5.2		1		:	1	
10/21/9			2354,73	050	<0.5	<0.5	<0.5	<00.5	1.2	:	:			:	1
9/21/01			,				1	,	1					:	,
12/15/01	2388.95				1			1	1	,					,
3/15/02	2388.95	Dry			:			1	1	:	1	;	:	:	:
6/26/02	2388.95		2353,52	<50	<0.5	<0.5	<0.5	500	<0.5	:		1	;	:	
9/25/02			2349.13	05>	S 0 S	505	500	300	> 0>						
12/12/02										,					
(3/20/2003)		10 11	2388.01	05>	2000	50.5	5 00	300	300						
60/11/03	-		2398 88	05>	200	505	3 00	300	200						
0.0403			2106.68	3	300	200	300	3 9	200		:		:	:	:
TO COMPANY			9300.00	200	200	200	600	co:	00.5	:	:		:	:	1
12/13/03		37.36	2389.30	8	503	<0.5	<00.5	505	<0.5		:	:		:	1
24404			2395.11	8	003	<0.5	<00.5	40.5	<0.5	:	ı	:		:	
6/14/04		26.07	2401.05	8	00.5	<0.5	40.5	40.5	0.72	:	:	:		:	1
12/15/04	2427.12	39.88	2387.24	080	500	× 0>	200								
200200						2000	600	40.5	-	:	:		:	:	

Table 4 GROUNDWATER ELEVATION AND ANALYTICAL DATA Codar Stock Resert 43810 State Highway 3 Tristiny Center, Collifornia Project No. NC-017

Ethanol (ug/L)					;	1	1	,	:	,	1		1		;	,	1	:				:		1	1	:	:				1	1	1	1			1	1	,		1	1	1	1	1			1	1			:	1	***
TAME Methanol (ng/L)			: :	;	;	;	;	;	1		,	;	-	:	:	:		:	:	:	:	:	:	:	:	:	:	:	:		:			:	;		!	1	1	:	1	:	:	:	:	:	:	:	:		:	:		-
				1	1	1	1	1	1	1	1		1	1	1	:	1	:	1	1	1	1	1	1	1	1	ı	1	1	1	1	1	1	1	⊽	1	1	1	1	1	1	1	1		1		1	1	1	-			1	-
ETBE (Ag/L)					1	1	1	1	:				:	1		:	:	:		:	:	:		:	:		:	:	:			:	;	1	⊽				:	:			:	:	:	:	:		:			:		-
DIPE (Hg/L)				:			1	1	1		:	:	1	2	:	1	1	1	1	1	:	1	1	1	1	1	1	1	1	1	1	1	1	1	v	1	1	1			1		1		1	1		1	1	:	:		: :	
TBA (Hg/L)					1	:	:	:	1	1			1	:	:	1	1	1	1	I	1		1	1	1	1	1	1	1		1	1	1	1	×10	1	1	1		1	1	1	1		1	1			1	:	1	1		-
MTBE (9g/L)				0	:	:	7	:	1	7	:	:	0	0	:	0	0	7	4.5	0.85	:		<0.5	0.64	<0.5	:	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	0	0	٥	:	<0.5	:		:	<0.5	<0.5	:		<0.5	<0.5		60.5	00.5 0 4	500	2000
Xylenes (µg/L)			: :	<0.5	:	:	<0.5	:	:	<0.5	:	:	<0.5	<0.5	:	8.0	09'0 >	09'0 >	09'0 >	<0.5	1		<0.0>	<0.5	<0.5	:	<0.5	<00.5	<0.0	<0.5	<0.5	<0.5	<0.5	<0.5	00.5	9700	9000	900	1	000	:	:		00.5	00.5	1	: 1	903	93	3.4	9 9	500	9 603	200
Toluene Ethylbenzene Xylenes MTBE (ugL) (ugL) (ugL)				<0.5	,	:	<0,5	,	;	<0.5	;	:	<0.5	<0.5	:	<0.3	<0.3	<0.3	<0.3	<0.5			<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	00.5	00.5	<0.5	<0.3	<0.3	<0.3	1	<0.5	1	1		905	40.5	:		000	40.5	2 4	500	6.6	50.5	2000
Toluene (µg/L)		:		<0.5	1		<0.5	,	1	<0.5	1	1	<0.5	<0.5	1	<0.3	<0.3	<0.3	<0.3	<0.5	1	1	<0.5	<0.5	<0.05	1	<0.5	<0.5	<0.5	40.5	<0.5	<0.5	40.5	40.5	40.5	40.3	<0.3	<0.3	:	40.5	:		:	40.5	<0.5			000	6.9		0.4	0.0	0 9	-0.00
Benzene (µg/L)		1	1	40.5	1	1	40.5	1	1	<0.5	:	:	40.5	40.5	:	40.3	<0.3	<0.3	<0.3	<0.5		:	<0.5	<0.5	<0.5	:	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.3	<0.3	<0.3		<0.5	1	1		<0.5	<0.5	1	1 9	<0.05	505	3 47	200	50.5	500	- Are
TPHg (ug/L)			:	950	:		950		1	99		:	99	99	1	99	950	<50	\$00	290	:	:	050	95	050		× \$0	080	050	080	05>	05>	×20	°50	0\$>	05>	95	8		8		:		8:	8		1 1	8	8	100	25	8 5	3 5	-
GWE (feet)			1	2342.65	2349.29	2351.84	2355.06	2356.93	2357.25	2360.62	2361.06	2351.96	2350.79	2344.62	2363.19	2367.69	2345,35	2339.06	2339.79	2345.78	:		2336.53	2344.89	2334.61	:	2379.89	2402.83	2386.30	2378.02	2388.72	2394.58	2371.70	2388.88	2353.96	2364.86	2354.01	2346.16	: !	2347.65	2345.34	:	1	2346.04	2345.36	:	20000	2392.34	2392.48	2100.00	2106.12	21,090,12	2305.81	engage y
DTW (feet)	Dev	20	Day	30.35	23.71	21.16	17.94	16.07	15.75	12.38	11.94	21.04	22.21	28.38	9.81	5.31	27.65	33.94	33.21	27.22	Dry	Dry	36.47	28.11	38.39	Dry	31.24	8.30	24.83	33.11	22.41	16.55	39,43	22.25	22.92	12.02	22.87	30.72	D's	29.23	31.54	Day	D'a	30.84	31.52	o o	50 60	06.33	22.30	26.24	10.02	18.92	18.23	10100
TOC (feet)	2373.00	2373.00	2373,00	2373.00	2373,00	2373.00	2373.00	2373.00	2373,00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00	2373.00			2411.13	2411.13	2411.13	2411.13	2411.13	2411.13	2376.88	2376.88	2376.88	2376.88	2376.88	2376.88	2376.88	2376.88	2376.88	2376.88	2370,88	2370.88	50,015,04	60'0167	2415.04	2415.04	2415.04	2415,04	2415.04	Water or other party of the par
Sampling	11/23/07	12/22/07	2/1/98	2/26/98	3/14/98	4/25/98	5/16/98	86,989	7/18/98	9/3/98	10/2/98	11/27/98	12/15/98	00/11/1	2/4/00	00/1/9	9/26/00	12/22/00	3/30/01	6/13/01	9/21/01	12/15/01	3/15/02	6/26/02	9/25/02	12/12/02	(3/20/2003)	6/11/03	9/24/03	12/15/03	3/4/04	6/14/04	12/15/04	6/23/05	5/4/00	00/1/9	9/26/00	12/22/00	3/30/01	0.1301	9/21/01	12/15/01	3/15/02	6/26/02	W2NU2	12/12/02	(5007007)	0011/00	1005003	124.03	6014.004	19/15/04	602308	- Company
Well :	MW-4		Screen	20-40																															MW-5		Screen	15:35																

Table 4 GROUNDWATER ELEVATION AND ANALYTICAL DATA Colar Stock Resect 4581 Grant Highway 3 Trially Center, California Project No. NC-017

Surest 2179-53 22.11 2357-62 450 40.3 40.3 40.3 40.5	Well No.	Sampling Date	TOC (feet)	(feet)	GWE (feet)	TPHg (ag/L)	Benzene (µg/L)	Toluene (µg/L)	Toluene Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (Hg/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TAME Methanol (ag/L) (ag/L)	Ethanol (µg/L)
March Marc	MW.6	5/4/00	2379.53	22,11		950	<0.5	40.5	40.5		<0.5	oto	V	V	V		
922600 2379.53 2448 2354.65 <0 0.03 0.03 0.03 0.05 0.05 0.05 0.03 0.03		00/1/9	2379.53	9.71		950	<0.3	403	40.3	9'00	0	:					
12,22,00 12,72,50 12,72,50 41,235,06 41,235,	Screen	9/26/00	2379.53	24,88		950	<0.3	<0.3	<0.3	9'00	2.3			:	:	1	
2779.53 27.93 27.95 27.5160	15.35	12/22/00	2379.53	29,47		250	<0.3	<003	<0.3	9'00	2		- 1	:		1	
2379.53 24.48 2355.05 4.05 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5		3/30/01	2379.53	27.93		950	<0.3	403	40.3	9000	0	:	3	1		1	:
2379.53 32.21 2347.32		6/13/01	2379.53	24,48		950	<0.5	40.5	<0.5	00.5	2.1			:		1	. 1
2379.53 28.43 2351.10		9/21/01	2379.53	32.21		950	<0.5	40.5	<0,5	00.5	1.9			:		1	:
2379.53 24.49 2355.04 <50 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0		12/15/01	2379.53	28,43		050	<0.5	<0.5	<0.5	00.5	3.2	7	<0.5	<0.5	<0.5	1	1
2379.53 24.85 2354.68 <0-0		3/15/02	2379.53	24,49		99	<0.5	40.5	<0,5	00.5	1.5	:	:			1	:
2379.53 32.13 2347.40 <50 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		6/26/02	2379.53	24.85		000	<0.5	40.5	<0.5	500	1.5		:	1	1	1	
241772 24.79 239.29 <		9/25/02	2379.53	32,13		050	<0.5	40.5	<0.5	500	1.8	:	:			1	1
241772 2479 2392.93		12/12/02	2379.53	Dry		:	1	1		1	1		**	:		1	
2417.72 11.77 2405.95 <50 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <		(3/20/2003)	2417.72	24.79		050	<0.5	<0.5	<0.5	40.5	2.4	-		1	:	1	:
2417.72 22.95 2394.77 <50 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		60/11/9	2417.72	11.77		050	<0.5	<0.5	<0.5	<0.5	1.6				:	1	1
2417.72 No Access 2417.72 No Access 2417.72 No Access 2418.72 15.01 4.02 11.01 2418.72 15.01 2418.72 15.00 2418.72 15.00 2418.72 15.00 2418.72 15.00 2418.72 15.00 240.72 4.03 240.72 4.03 240.73 4.03 240.73 4.03 240.73 4.03 240.73 4.03 240.73 4.03 240.73 4.03 240.73 4.03 240.73 240 240.		9/24/03	2417.72	22.95		<50	<0.5	<0.5	<0.5	<0.5	1.5		:		,	1	1
2417.72 No Access 2418.72 15.91 240.281 <55 -0.5 2418.72 18.38 240.44 <55 -0.5 -0.5 2418.72 18.00 240.72 <50 -0.5 Thate & coker threshold 5 - 42 29 NCRWQCB Cleanup Gods -50 -0.5 -0.5		12/15/03	2417.72	No Acces		1	1	:		1					:	1	
2418.72 15.91 2402.81 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		3/4/04	2417.72	No Acces		1	1		:	1	:	:	:		:	1	:
2418.72 18.28 2400.44 <50 <0.5 <0.5 <0.5 2418.72 18.00 2400.72 <50 <0.5 <0.5 <0.5 Taite & obser threshold 5		6/14/04	2418.72	18.91		05>	<0.5	<0.5	<0.5	<0.5	1.4	:	:			1	
2418.72 18.00 2400.72 <50 <0.5 <0.5 Taste & ooker threshold 5		12/15/04	2418,72	18.28		×50	<0.5	<0.5	<0.5	40.5	1.8		:	1	:	1	1
5 - 42 29 1 50 730 1 150 730		6/23/05	2418.72	18,00		08>	<0.5	<0.5	<0.5	<0.5	-	:	:	1	:	1	:
- 1 150 750 -50 0.50 42 29				Taste & od	blodsing of	5		42	29	12	:						
<50 0.50 42 29					MCL		-	180	750	1,750	9						
			NCR	WOCB CIL	canup Goals		0.50	42	29	17	2						

TOC: Top of casing referenced to US Bureau of Beckenation Trialty Lake level (229) 78 feet above men no level).

DTW: Depth to water as referenced to benchmark.

GWE: Ground water elevation as referenced to benchmark.

μg'L = micrograms per liter "--". Not analyzed, available, or applicable

«MW : Not detected at or below the method detection limit as shown.
MCL. Maximum contaminate level, and enforcable drinking water standard.
Tasse & odor thresbold: A drinking water standard

Sample date in parentheses indicated new wellhead survey per Geotmeker TPHg total perioleum hydrocarbons as gasoline by EPA Method 8260B MTBE.Methyl tertiary butyl ether by EPA Method 8260B DIPE: Di isogeopyl ether by EPA Method 82600
ETBE: Ethyl tertiary busyl ether by EPA Method 8260B
TAME: tertiary saryl methyl ether by EPA Method 8260B
NCRWQCB: North Coast Regional Water Quality Coatrol Board TBA: Tert butanol by EPA Method 8260B

Table 5

DPE Test Data: Applied Vacuum, Air Flowrate, Radius of Influence, Water Pumping Rate, and Maximum Drawdown

Cedar Stock Resort 45810 Hwy 3 Trinity Center, California

Date	Pump	Process Air	Dilution	Well Air	Water	Max. Depth of	Maximu	m Induced	Vacuum	Ma	ximum Drav	vdown
	Vacuum	Flowrate	Air Flowrate	Flowrate	Pumping Rate	Intake Hose	Measured	in Observat	tion Wells			
	(in. Hg col.)	(scfm)	(scfm)	(scfm)	(gpm)	(ft bgs)	(inch	es water co	lumn)		(feet)	
							MW-2 d = 66'	MW-3 d = 100'	MW-5 d = 123'	MW-2 d = 66'	MW-3 d = 100'	MW-5 d = 123'
10/31/05	0.0	0	0	0	0.0	N/A pre-test	0.0	0.00	0.00	0.00	0.00	0.00
10/31/05	24.8	78	0	78	0.0	39.0	0.0	0.740	0.00	0.04	-0.04	-0.03
11/1/05	25.0	73	0	73	N/A	39.0	0.0		V 200 200 200			-0.15
11/2/05	25.0	73	0		0.31	39.0	0.41					-0.23
11/3/05	25.0	73	0		N/A					0.00	0.00	0180
11/4/05	25.0	73	0	73	0.16	39.0						
11/4/05	0.0	0	0	0	0.0	N/A post-test	0.0	0.00	0.00	0.0	0.00	0.00
	10/31/05 10/31/05 11/1/05 11/2/05 11/3/05 11/4/05	Vacuum (in. Hg col.) 10/31/05	Vacuum (in. Hg col.) Flowrate (scfm) 10/31/05	Vacuum (in. Hg col.) Flowrate (scfm) Air Flowrate (scfm) 10/31/05 0.0 0 0 10/31/05 24.8 78 0 11/1/05 25.0 73 0 11/2/05 25.0 73 0 11/3/05 25.0 73 0 11/4/05 25.0 73 0	Vacuum (in. Hg col.) Flowrate (scfm) Air Flowrate (scfm) Flowrate (scfm) 10/31/05 0.0 0 0 0 10/31/05 24.8 78 0 78 11/1/05 25.0 73 0 73 11/2/05 25.0 73 0 73 11/3/05 25.0 73 0 73 11/4/05 25.0 73 0 73 11/4/05 25.0 73 0 73 11/4/05 25.0 73 0 73	Vacuum (in. Hg col.) Flowrate (scfm) Air Flowrate (scfm) Flowrate (scfm) Pumping Rate (gpm) 10/31/05 0.0 0 0 0 0.0 10/31/05 24.8 78 0 78 0.0 11/1/05 25.0 73 0 73 N/A 11/2/05 25.0 73 0 73 0.31 11/3/05 25.0 73 0 73 N/A 11/4/05 25.0 73 0 73 N/A 11/4/05 25.0 73 0 73 0.16	Vacuum (in. Hg col.) Flowrate (scfm) Air Flowrate (scfm) Pumping Rate (gpm) Intake Hose (ft bgs) 10/31/05 0.0 0 0 0.0 N/A pre-test 10/31/05 24.8 78 0 78 0.0 39.0 11/1/05 25.0 73 0 73 N/A 39.0 11/2/05 25.0 73 0 73 0.31 39.0 11/3/05 25.0 73 0 73 N/A 39.0 11/4/05 25.0 73 0 73 N/A 39.0 11/4/05 25.0 73 0 73 0.16 39.0	Vacuum (in. Hg col.) Flowrate (scfm) Air Flowrate (scfm) Flowrate (scfm) Pumping Rate (gpm) Intake Hose (ft bgs) Measured (inch left) 10/31/05 0.0 0 0 0.0 N/A pre-test 0.0 10/31/05 24.8 78 0 78 0.0 39.0 0.0 11/1/05 25.0 73 0 73 N/A 39.0 0.0 11/2/05 25.0 73 0 73 0.31 39.0 0.41 11/3/05 25.0 73 0 73 N/A 39.0 0.41 11/4/05 25.0 73 0 73 0.16 39.0 0.41	Vacuum	Vacuum (in. Hg col.) Flowrate (scfm) Flowr	Vacuum	Vacuum (in. Hg col.) Flowrate (scfm) Flowr

Notes:

DPE Dual-Phase Extraction using 25-HP Liquid-Ring Pump

in. Hg col. Inches mercury column vacuum scfm Standard cubic feet per minute

gpm Gallons per minute

ft bgs Feet below ground surface

d = Lateral distance in feet from extraction well to noted observation well

NM Not measured

Table 6 SUMMARY OF WATER SAMPLE ANALYTICAL RESULTS Dual-Phase Extraction Treatment

Cedar Stock Resort 45810 Hwy 3 Trinity Center, California

Sample ID	Sampling Date	B (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE (μg/L)	TPHg (μg/L)
MW-1 (pre-DPE)	10/31/05	5.8	<0.5	<0.5	<0.5	240	730
mid-fluent 1	11/2/05	< 0.5	< 0.5	< 0.5	2	28	250
MW-1 (post-DPE)	11/4/05	1.6	< 0.5	<0.5	<0.5	210	260

Notes:

MW-1 (pre-DPE)	Water sample collected from well approximatley one hour prior to DPE treatment
mid-fluent	Water sample collected from DPE equipment process stream is partially treated by process
MW-1 (post DPE)	Water sample collected from monitoring well after DPE test (and after 3x purge)
BTEX	Benzene, Toluene, Ethylbenzene and total Xylenes by EPA Method 8260B
MTBE	Methyl-tert-Butyl Ether by EPA Method 8260B
TPHg	Total Petroleum Hydrocarbons as gasoline by EPA Method 8260B
μg/L	Micrograms per liter
<#.#	Not detected at or above laboratory detection limit (#.#)

Table 7 SUMMARY OF AIR SAMPLE ANALYTICAL RESULTS Dual-Phase Extraction Treatment

Cedar Stock Resort 45810 Hwy 3 Trinity Center, CA

results in mg/m3

Sample ID	Sampling Date	Extraction Well	B (mg/m3)	T (mg/m3)	E (mg/m3)	X (mg/m3)	MTBE (mg/m3)	TPHg (mg/m3)
	10/01/05	2007.1						
Influent 10/31/05	10/31/05	MW-1	0.5	1.6	1.9	8.5	1.8	680
Influent 11/1/05	11/1/05	MW-1	0.48	0.44	0.40	1.7	5.5	350
Influent 11/2/05	11/2/05	MW-1	0.31	< 0.20	< 0.20	0.41	3.8	250
Influent 11/3/05	11/3/05	MW-1	0.23	0.22	< 0.20	0.23	2.9	130
Influent 11/4/05	11/4/05	MW-1	0.46	0.30	0.30	1.8	5.9	330

results in ppmv

Sample ID	Sampling Date	Extraction Well	B (ppmv)	T (ppmv)	E (ppmv)	X (ppmv)	MTBE (ppmv)	TPHg (ppmv)
Influent 10/31/05	10/31/05	MW-1	0.15	0.43	0.43	1.90	0.50	
Influent 11/1/05	11/1/05	MW-1	0.15	0.43	0.43	0.38	0.50 1.5	170 89
Influent 11/2/05	11/2/05	MW-1	0.096	< 0.05	< 0.05	0.094	1.0	64
Influent 11/3/05	11/3/05	MW-1	0.07	0.057	< 0.05	0.053	0.8	32
Influent 11/4/05	11/4/05	MW-1	0.14	0.080	0.068	0.41	1.6	83

Notes:

Dual-Phase Extraction (air samples collected from process stream may include dilution air with well gas)
Benzene, Toluene, and Ethylbenzene by EPA Method 8260B
Methyl-tert-Butyl Ether by EPA Method 8260B
Total petroleum hydrocarbons as gasoline by EPA Method 8260B
Milligrams per cubic meter
Molar parts per million
Not detected at or above laboratory detection limit (#.#)

Table 8 SUMMARY OF DATA AND RESULTS Dual-Phase Extraction Treatment

TPHg Extraction Rates

Cedar Stock Resort 45810 Hwy 3 Trinity Center, California

Liquid Phase

Extraction Well No.	DPE Test Date Date	Max. Depth of Intake Hose (ft bgs)	Test Duration (minutes)	Water Sample ID	TPHg Conc. (μg/L)	Test Segment Water Pumped (gallons)		est Segment rPumping R (gph)		TPHg Extraction Rate (lb/day)
MW-1	10/31/05	0	0	MW-1 (pre-DPE)	730	0	0.00	0	0	0.0000
MW-I	11/2/05	39	3,240	mid-fluent 1	250	1,018	0.31	19	452	0.0000000000000000000000000000000000000
MW-I	11/4/05	0	4,500	MW-1 (post-DPE)	260	737	0.16	10	236	

Total Gallons Pumped = 1,755

Conversions used in calculations:

1 liter = 0.2642 gallons

1 gram = 1,000,000 μg

1 lb = 453.6 grams

1m3 = 35.3 ft3

1 ft3 = 7.481 gallons

Vapor Phase

Extraction Well No.	DPE Test Date Date	Max. Depth of Intake Hose (ft bgs)	Test Duration (minutes)	Air Sample ID	TPHg Conc. (mg/m3)	Applied Vacuum (inches Hg)	Well Flowrate (scfm)	Process Flowrate (scfm)	TPHg Extr	action Rate (lb/day)
	DPE Tests									
MW-1	10/31/05	39	180	Influent 10/31/05	680	24.8	78	78	0.20	4.8
MW-1	11/1/05	39	1,680	Influent 11/1/05	350	25.0	73	73	0.10	2.3
MW-1	11/2/05	39	2,700	Influent 11/2/05	250	25.0	73	73	0.07	1.6
MW-1	11/3/05	39	3,300	Influent 11/3/05	130	25.0	73	73	0.04	0.9
MW-1	11/4/05	39	4,470	Influent 11/4/05	330	25.0	73	73	0.09	2.2

Lin				

TPHg Total Petroluem Hydrocarbons as gasoline EPA Method 8260B

μg/L Micrograms per liter gpm Gallons per minute gph Gallons per hour gpd Gallons per day

mg/m3 Milligrams per cubic meter, equivalent to micrograms per liter (μg/L)

scfm Standard cubic feet per minute (flowrate)

lb Pound

inches Hg Inches mercury column vacuum

< 500 Not detected exceeding 500 mg/m3; for the purpose of calculating TPHg extraction rates a concentration of 499 mg/m3 was assumed.

ft bgs Feet below ground surface

Notes:

TPHg extraction rates are approximations based on discrete sample concentration and flow data.

A 25-HP liquid-ring pump and a thermal oxidizer were utilized for dual-phase extraction testing.

Table 9 SUMMARY OF DATA AND RESULTS **Dual-Phase Extraction Treatment** MTBE Extraction Rates

Cedar Stock Resort 45810 Hwy 3 Trinity Center, California

Liquid Phase

Extraction Well	DPE Test Date	Max. Depth of Intake Hose	Test Duration	Water Sample	MTBE Conc.			est Segment erPumping Rate		MTBE Extraction Rate
No. Date	(ft bgs)	(minutes)	ID	(μg/L)	(gallons)	(gpm)	(gph)	(gpd)	(lb/day)	
MW-1	10/31/05	0	0	MW-1 (pre-DPE)	240	0	0.00	0	0	0.00000
MW-1	11/2/05	39	3,240	mid-fluent 1	28	1,018	0.31	19	452	0.00011
MW-1	11/4/05	0	4,500	MW-1 (post-DPE)	210	737	0.16	10	236	0.00041
				Total Gallor	ns Pumped =	1,755				

Vapor Phase

Extraction Well	DPE Test Date	Max. Depth of Intake Hose	Duration	Air Sample	MTBE Conc.	Applied Vacuum	Well Flowrate	Process Flowrate	MTBE Ext	raction Rate
No.	Date	(ft bgs)	(minutes)	ID	(mg/m3)	(inches Hg)	(scfm)	(scfm)	(lb/hr)	(lb/day)
	DPE Tests									
MW-1	10/31/05	39	180	Influent 10/31/05	1.8	24.8	78	78	0.0056	0.013
MW-1	11/1/05	39	1,680	Influent 11/1/05	5.5	25.0	73	73	0.0015	0.036
MW-1	11/2/05	39	2,700	Influent 11/2/05	3.8	25.0	73	73	0.0010	0.025
MW-1	11/3/05	39	3,300	Influent 11/3/05	2.9	25.0	73	73	0.0008	0.019
MW-1	11/4/05	39	4,470	Influent 11/4/05	5.9	25.0	73	73	0.0016	0.039

Units/Abbreviations

MTBE Methyl-tert-Butyl Ether by EPA Method 8260B

µg/L Micrograms per liter gpm Gallons per minute gph Gallons per hour gpd Gallons per day

mg/m3 Milligrams per cubic meter, equivalent to micrograms per liter (µg/L)

sefm Standard cubic feet per minute (flowrate)

Pound lb

inches Hg Inches mercury column vacuum ft bgs Feet below ground surface

Notes:

MTBE extraction rates are approximations based on discrete sample concentration and flow data. A 25-HP liquid-ring pump and a thermal oxidizer were utilized for dual-phase extraction testing.

Conversions used in calculations: 1 liter = 0.2642 gallons 1 gram = 1,000,000 μg 1 lb = 453.6 grams 1 ft3 = 7.481 gallons 1m3 = 35.3 ft3

APPENDIX A



Date: 11/4/2005

Andrew LoCicero Blue Rock Environmental, Inc. 535 3rd Street, Suite 100 Eureka, CA 95501

Subject: 1 Water Sample Project Name: Cedar Stock Project Number: NC-17

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Project Name: Cedar Stock

Project Number: NC-17

Matrix : Water

Lab Number : 46696-01

Report Number: 46696 Date: 11/4/2005

Sample Date :10/31/2005

Sample: MW-1

Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
5.8	0.50	ug/L	EPA 8260B	11/2/2005
< 0.50	0.50	ug/L	EPA 8260B	11/2/2005
< 0.50	0.50	ug/L	EPA 8260B	11/2/2005
< 0.50	0.50	ug/L	EPA 8260B	11/2/2005
240	0.50	ug/L	EPA 8260B	11/2/2005
730	50	ug/L	EPA 8260B	11/2/2005
100		% Recovery	EPA 8260B	11/2/2005
104		% Recovery	EPA 8260B	11/2/2005
	Value 5.8 < 0.50 < 0.50 < 0.50 240 730	Measured Value Limit 5.8 0.50 < 0.50 0.50 < 0.50 0.50 < 0.50 0.50 240 0.50 730 50 100	Measured Value Reporting Limit Units 5.8 0.50 ug/L < 0.50	Measured Value Reporting Limit Units Analysis Method 5.8 0.50 ug/L EPA 8260B < 0.50

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

A Kiff

Date: 11/4/2005

QC Report: Method Blank Data Project Name: Cedar Stock

Project Number: NC-17

	Magazinad	Method	_ 5	Analusis	Date
Parameter	Value	Limit	Units	Method	Analyzed
Benzene	< 0.50	0.50	Ug/L	EPA 8260B	11/2/2005
Toluene	< 0.50	0.50	Ug/L	EPA 8260B	11/2/2005
Ethylbenzene	< 0.50	0.50	UQ/L	EPA 8260B	11/2/2005
Total Xylenes	< 0.50	0.50	UQ/L	EPA 82608	11/2/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	UQ/L	EPA 8260B	11/2/2005
TPH as Gasoline	< 50	20	UQ/L	EPA 8260B	11/2/2005
Toluene - d8 (Surr)	89.7		8	EPA 8260B	11/2/2005
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	11/2/2005

	Measured	Reporting	Analysis	Date
rameter	Value	Limit Units	Method	Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Date: 11/4/2005

QC Report: Matrix Spike/ Matrix Spike Duplicate

Project Name: Cedar Stock

Project Number: NC-17

Parameter	Spiked Sample	Sample Spike Value Level	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	e Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	46691-10	<0.50	40.0	40.0	42.1	41.3	ng/L	EPA 8260B	11/2/05	105		1.87		25
Toluene	46691-10	<0.50	40.0	40.0	39.7	38.3	J/6n	EPA 8260B	11/2/05	99.2	8.36	3.51		25
Tert-Butanol	46691-10	<5.0	200	200	238	238	J/Gn	EPA 8260B	11/2/05	119	119	0.106		25
Methyl-t-Butyl E	lethyl-t-Butyl Ether 46691-10 1.2	1.2	40.0	40.0	41.2	41.7	ng/L	EPA 8260B	11/2/05	6.66	101	1.40		25

Approved By: Joe Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Sulte 300 Davis, CA 95616 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Report Number: 46696 Date: 11/4/2005

Project Name: Cedar Stock

Project Number: NC-17

LCS Percent Recov. Limit	70-130	70-130	70-130	70-130
LCS Percent Recov.	101	104	113	92.4
Date Analyzed	11/2/05	11/2/05	11/2/05	11/2/05
Analysis Method	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Units	ng/L	ng/L	ng/L	ng/L
Spike Level	40.0	40.0	200	40.0
Parameter	Benzene	Toluene	Tert-Butanol	Methyl-t-Butyl Ether

Approved By: Job Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL, LLC

KIFF	c		Davis Lab:	2nd 5 5, CA 9 530.2 530.2	95616 97.48	6 BOO	e 30	00												Lab	No	40	010	910	,		Paç			,
Project Contact (Hardcopy or PDF ANJIEW LOCICERS	To):		C	alifo	rnia	EDI						Spro	T	Ch	ain	-of	-Cı	ust	tod						100000		/sis	CHARLES		
Andrew Locicera Company/Address: Blue Rock 535 3rd Street # 16	Environme	estal	88	mplin	g Cor					oletti stok		ellione -					Ar	aly	ysis	Re	qu	est							TAT	
Phone No.: (707) 441-1934 (707) 4 Project Number: P.O. No: NC-17 Project Name: (Cder Street Project Address: 45810 HWY 3	41-194	19	EL	obal III	verat	blue	co	ike	- ddre	6/\		•		BTEX/TPH G8s/MTBE (8021B/M8015)	015)	M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Ges/BTEX (82608)	(80)	260B)	3A & 1,2 EDB - 82608)	st)	Volatile Halocarbons (EPA 8280B)	TOTAL (X) WET. (X)				12 hr/24 hr/48 hr/72 hr/ (MK)	For Lab Use Only
Project Address: 45810 HWY 3	Samp	ling	4	Conta	iner		Pre	serv	ative	M	atr	ix	9	G88/M	Sel (M8	tor Oil (TEXM	HAT/sea	HALL SE	Bes (826	ates (82	(1,2 DC	(Full Li	ocarbor	(239.2)				/48 hr/	or Lab
Sample Designation	Date	Time	40 ml VOA	SLEEVE		3	HNO	S S S	NONE	WATER	Name of the last	SOIL	BTEX (8021B)	BTEX/TPH	TPH as Diesel (M8015)	TPH 8s Motor Oil (M8015)	TPH Gas/B	5 Oxygenat	7 Oxygenat	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2	EPA 8260B (Full List)	/olatile Hal	Lead (7421/239.2)				2 hr/24 hr	T.
MW-I	10-31-05	0940				>	1			>	7						8	~											X	01
Relinquished by: Robert Son		Patr		Time	Rec	ceived	by:									Rei	nark	s:												
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Relinquished by: Classification: White - Lab, Pink - Originator		Date		Time 030	Rec	ilu	by t	abor Sp	ratory Len	us	K	if	Ana	rly	hòu	ВШ	to:			Tier	7	02	20	Do	ent p	160	NO.			21001.fhs



Date: 11/10/2005

Andrew LoCicero Blue Rock Environmental, Inc. 535 3rd Street, Suite 100 Eureka, CA 95501

Subject: 2 Water Samples Project Name: Cedar Stock Project Number: NC-17

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Project Name : Cedar Stock

Project Number: NC-17

Matrix: Water

Lab Number: 46803-01

Report Number: 46803 Date: 11/10/2005

Sample: Midfluent 1 Sample Date :11/2/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/8/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/8/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/8/2005
Total Xylenes	2.0	0.50	ug/L	EPA 8260B	11/8/2005
Methyl-t-butyl ether (MTBE)	28	0.50	ug/L	EPA 8260B	11/8/2005
TPH as Gasoline	250	50	ug/L	EPA 8260B	11/8/2005
Toluene - d8 (Surr)	96.2		% Recovery	EPA 8260B	11/8/2005
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	11/8/2005

Sample: MW-1 Post

Matrix: Water

Lab Number: 46803-02

Sample Date :11/4/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.6	0.50	ug/L	EPA 8260B	11/8/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/8/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/8/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/8/2005
Methyl-t-butyl ether (MTBE)	210	0.50	ug/L	EPA 8260B	11/8/2005
TPH as Gasoline	260	50	ug/L	EPA 8260B	11/8/2005
Toluene - d8 (Surr)	96.4		% Recovery	EPA 8260B	11/8/2005
4-Bromofluorobenzene (Surr)	. 100		% Recovery	EPA 8260B	11/8/2005

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Date: 11/10/2005

Measured Reporting
Value Limit Units

rameter

QC Report: Method Blank Data

Project Name: Cedar Stock

Project Number: NC-17

		Method					
Parameter	Measured	Reporting	ng Units	Analysis	Date	립	970
Senzene	< 0.50	0.50	ngvL	EPA 8260B			
Foluene	< 0.50	0.50	ugh	EPA 8260B	11/8/2005		
Ethylbenzene	< 0.50	0.50	ugh	EPA 8260B			
Fotal Xylenes	< 0.50	0.50	ugy	EPA 8260B			
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ugit	EPA 8260B	11/8/2005		
rPH as Gasoline	× 50	8	ugit	EPA 8260B	11/8/2005		
Foluene - d8 (Surr)	97.6		*	EPA 8260B	11/8/2005		
1-Bromofluorobenzene (Surr)	100		*	EPA 8260B	11/8/2005		

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL, LLC

Date: 11/10/2005

QC Report: Matrix Spike/ Matrix Spike Duplicate

Project Name: Cedar Stock

Project Number: NC-17

Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov.	Relative Percent Diff. Limit
46819-05	<0.50	40.0	40.0	39.3	38.3	ng/L	EPA 8260B	11/8/05	98.3	95.7	2.68	70-130	25
46819-05	<0.50	40.0	40.0	38.1	37.4	ng/L	EPA 8260B	11/8/05	95.3	93.4	2.00	70-130	25
46819-05	<5.0	200	200	208	210	ng/L	EPA 8260B	11/8/05	104	105	0.801	70-130	25
lethyl-t-Butyl Ether 46819-05	8.0	40.0	40.0	48.7	48.6	ng/L	EPA 8260B	11/8/05	102	102	0.253	70-130	25

Approved By. Joe Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Date: 11/10/2005

QC Report : Laboratory Control Sample (LCS)

Project Name: Cedar Stock

Project Number: NC-17

arameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit	
zene	40.0	ug/L	EPA 8260B	11/8/05	94.7	70-130	
iene	40.0	ug/L	EPA 8260B	11/8/05	96.7	70-130	
-Butanol	200	ug/L	EPA 8260B	11/8/05	100	70-130	
Methyl-t-Butyl Ether	40.0	ng/L	EPA 8260B	11/8/05	95.3	70-130	

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL, LLC

Forms/coc 121001.mg For Lab Use Only Chain-of-Custody Record and Analysis Request TAT 12 12/24 12/24 81/72 12/ Lead (7421/239.2) TOTAL (X) W.E.T. (X) Volatile Halocarbons (EPA 8260B) EPA 8260B (Full List) **Analysis Request** .ead Scay. (1,2 DCA & 1,2 EDB - 8260B) (80908) (850B) 5 Oxygenates (8260B) V Oxygenates/TPH Gas/BTEX (8260B) 5 Oxygenates/TPH Gas/BTEX (8260B) Bill to: TPH Gas/8TEX/MTBE (8260B) (2108M) IIO rotoM se H9T TPH as Diesel (M6015) STEX/TPH Gas/MTBE (8021B/M8015) 81EX (8021B) California EDF Report? | Yes | Tho TIOS **MATER** × × EDF Deliverable To (Email Address): MONE Recommended but not manufatory to com Sampling Company Log Code: X ICE 2795 2nd Street, Suite 300 EONH HCI × Lab: 530.297.4800 Fax: 530.297.4808 Davis, CA 95616 Container Global ID: SCEEVE AOV Im 04 Sue act Environ. SEN St. MUD Encelon CAP PSSO Sampling 7074411949 P.O. No: Date rollien Distribution: White - Leb. Pink - Originato KIND COMES CO ユトから オシナコ Sample Designation カイレニ Relinquished by: Refinquished by 7577

APPENDIX B



Date: 11/4/2005

Andrew LoCicero Blue Rock Environmental, Inc. 535 3rd Street, Suite 100 Eureka, CA 95501

Subject: 1 Vapor Sample Project Name: Cedar Stock Project Number: NC-17

Dear Mr. LoCicero.

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Project Name: Cedar Stock

Project Number: NC-17

Report Number: 46695

Date: 11/4/2005

Sample: Influent 10/31/05 Sample Date :10/31/2005

Matrix : Air Lab Number: 46695-01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.48	0.20	mg/m3	EPA 8260B	11/1/2005
Toluene	1.6	0.20	mg/m3	EPA 8260B	11/1/2005
Ethylbenzene	1.9	0.20	mg/m3	EPA 8260B	11/1/2005
Total Xylenes	8.5	0.20	mg/m3	EPA 8260B	11/1/2005
Methyl-t-butyl ether (MTBE)	1.8	0.20	mg/m3	EPA 8260B	11/1/2005
Benzene (in ppmv)	0.15	0.050	ppmv	EPA 8260B	11/1/2005
Toluene (in ppmv)	0.43	0.050	ppmv	EPA 8260B	11/1/2005
Ethylbenzene (in ppmv)	0.43	0.050	ppmv	EPA 8260B	11/1/2005
Total Xylenes (in ppmv)	1.9	0.050	ppmv	EPA 8260B	11/1/2005
Methyl-t-butyl ether (in ppmv)	0.50	0.10	ppmv	EPA 8260B	11/1/2005
TPH as Gasoline	680	20	mg/m3	EPA 8260B	11/1/2005
TPH as Gasoline (in ppmv)	. 170	5.0	ppmv	EPA 8260B	11/1/2005
Toluene - d8 (Surr)	95.8		% Recovery	EPA 8260B	11/1/2005
4-Bromofluorobenzene (Surr)	96.8		% Recovery	EPA 8260B	11/1/2005

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Date: 11/4/2005

Analysis Method

Method Reporting Limit Units

Measured

Parameter

QC Report: Method Blank Data Project Name: Cedar Stock

Project Number: NC-17

	Monning	Method	5	Analysis	Data	
Parameter	Value	Limit	. Cuits	Method	Analyzed	
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	11/1/2006	
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	11/1/2005	
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	11/1/2005	
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	11/1/2006	
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	11/1/2005	
Benzene (in ppmv)	< 0.050	0.050	hmdd	EPA 82608	11/1/2005	
Toluene (in ppmv)	< 0.050	0.050	bpmv	EPA 82608	11/1/2005	
Ethylbenzene (in ppmv)	< 0.050	0.050	ymdd	EPA 8260B	11/1/2005	,
Total Xylenes (In ppmv)	< 0.050	0.050	Amdd	EPA 8280B	11/1/2005	
Methyl-t-butyl ether (in ppmv)	< 0.10	0.10	bbmv	EPA 8260B	11/1/2005	
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	11/1/2005	
TPH as Gasoline (in ppmv)	o 200 >	0.9	hpmv	EPA 8260B	11/1/2005	
Toluene - d8 (Surr)	97.8		*	EPA 8260B	11/1/2005	
4-Bromofluorobenzene (Surr)	92.5		*	EPA 8260B	11/1/2005	

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

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Date: 11/8/2005

Andrew LoCicero Blue Rock Environmental, Inc. 535 3rd Street, Suite 100 Eureka, CA 95501

Subject: 2 Vapor Samples Project Name: Cedar Stock Project Number: NC-17

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Project Name: Cedar Stock

Project Number: NC-17

Matrix: Air

Lab Number: 46747-01

Report Number: 46747

Date: 11/8/2005

Sample: Influent 11/1/05 Sample Date :11/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.48	0.20	mg/m3	EPA 8260B	11/4/2005
Toluene	0.44	0.20	mg/m3	EPA 8260B	11/4/2005
Ethylbenzene	0.40	0.20	mg/m3	EPA 8260B	11/4/2005
Total Xylenes	1.7	0.20	mg/m3	EPA 8260B	11/4/2005
Methyl-t-butyl ether (MTBE)	5.5	0.20	mg/m3	EPA 8260B	11/4/2005
Benzene (in ppmv)	0.15	0.050	ppmv	EPA 8260B	11/4/2005
Toluene (in ppmv)	0.12	0.050	ppmv	EPA 8260B	11/4/2005
Ethylbenzene (in ppmv)	0.090	0.050	ppmv	EPA 8260B	11/4/2005
Total Xylenes (in ppmv)	0.38	0.050	ppmv	EPA 8260B	11/4/2005
Methyl-t-butyl ether (in ppmv)	1.5	0.10	ppmv	EPA 8260B	11/4/2005
TPH as Gasoline	350	20	mg/m3	EPA 8260B	11/4/2005
TPH as Gasoline (in ppmv)	- 89	5.0	ppmv	EPA 8260B	11/4/2005
Toluene - d8 (Surr)	96.6		% Recovery	EPA 8260B	11/4/2005
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	11/4/2005

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Project Name: Cedar Stock

Project Number: NC-17

Matrix: Air

Lab Number: 46747-02

Report Number: 46747

Date: 11/8/2005

Sample: Influent 11/2/05 Sample Date :11/2/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.31	0.20	mg/m3	EPA 8260B	11/4/2005
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	11/4/2005
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	11/4/2005
Total Xylenes	0.41	0.20	mg/m3	EPA 8260B	11/4/2005
Methyl-t-butyl ether (MTBE)	3.8	0.20	mg/m3	EPA 8260B	11/4/2005
Benzene (in ppmv)	0.096	0.050	ppmv	EPA 8260B	11/4/2005
Toluene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	11/4/2005
Ethylbenzene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	11/4/2005
Total Xylenes (in ppmv)	0.094	0.050	ppmv	EPA 8260B	11/4/2005
Methyl-t-butyl ether (in ppmv)	1.0	0.10	ppmv	EPA 8260B	11/4/2005
TPH as Gasoline	250	20	mg/m3	EPA 8260B	11/4/2005
TPH as Gasoline (in ppmv)	- 64	5.0	ppmv	EPA 8260B	11/4/2005
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	11/4/2005
4-Bromofluorobenzene (Surr)	95.2		% Recovery	EPA 8260B	11/4/2005

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Date: 11/8/2005

Method Measured Reporting Value Limit Units

QC Report: Method Blank Data

Project Name: Cedar Stock

Project Number: NC-17

	Money	Method		Anahaeia	Cate	
Parameter	Value	Limit	Units	Method	Analyzed	Parameter
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	11/3/2005	
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	11/3/2005	
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	11/3/2005	
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	11/3/2005	
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	11/3/2005	
Benzene (in ppmv)	< 0.050	0.050	ymdd	EPA 8260B	11/3/2005	
Toluene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	11/3/2005	
Ethylbenzene (in ppmv)	< 0.050	0.050	ymdd	EPA 8260B	11/3/2005	
Total Xylenes (in ppmv)	< 0.050	090'0	bbmv	EPA 8260B	11/3/2005	
Methyl-t-butyl ether (in ppmv)	< 0.10	0.10	Amdd	EPA 8260B	11/3/2005	
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	11/3/2005	
TPH as Gasoline (in ppmv)	< 5.0	6.0	ymdd	EPA 8260B	11/3/2005	
Toluene - d8 (Surr)	97.7		×	EPA 82608	11/3/2005	
4-Bromofluorobenzene (Sum)	100		*	EPA 82608	11/3/2005	

Approved By: JoellKiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

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Date: 11/9/2005

Andrew LoCicero Blue Rock Environmental, Inc. 535 3rd Street, Suite 100 Eureka, CA 95501

Subject: 1 Vapor Sample Project Name: Cedar Stock Project Number: NC-17

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Project Name: Cedar Stock

Project Number: NC-17

Date: 11/9/2005

Report Number: 46807

Sample: Influent 11/4/05

Matrix: Air

Lab Number: 46807-01

Sample Date :11/4/2005		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.46	0.20	mg/m3	EPA 8260B	11/7/2005
Toluene	0.30	0.20	mg/m3	EPA 8260B	11/7/2005
Ethylbenzene	0.30	0.20	mg/m3	EPA 8260B	11/7/2005
Total Xylenes	1.8	0.20	mg/m3	EPA 8260B	11/7/2005
Methyl-t-butyl ether (MTBE)	5.9	0.20	mg/m3	EPA 8260B	11/7/2005
Benzene (in ppmv)	0.14	0.050	ppmv	EPA 8260B	11/7/2005
Toluene (in ppmv)	0.080	0.050	ppmv	EPA 8260B	11/7/2005
Ethylbenzene (in ppmv)	0.068	0.050	ppmv	EPA 8260B	11/7/2005
Total Xylenes (in ppmv)	0.41	0.050	ppmv	EPA 8260B	11/7/2005
Methyl-t-butyl ether (in ppmv)	1.6	0.10	ppmv	EPA 8260B	11/7/2005
TPH as Gasoline	330	20	mg/m3	EPA 8260B	11/7/2005
TPH as Gasoline (in ppmv)	- 83	5.0	ppmv	EPA 8260B	11/7/2005
Toluene - d8 (Surr)	96.8		% Recovery	EPA 8260B	11/7/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	11/7/2005

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Date: 11/9/2005

Method
Measured Reporting Analysis Date
Value Limit Units Method Analyzed

arameter

QC Report: Method Blank Data

Project Name: Cedar Stock Project Number: NC-17

	Measured	Method	0	Analysis	Date		
Parameter	Value	Limit	Units	Method	Analyzed	山	27
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	11/7/2005		
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	11/7/2005		
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	11/7/2005		
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	11/7/2005		
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	11/7/2005		
Benzene (in ppmv)	< 0.050	0.050	vmdd	EPA 8260B	11/7/2005		
Toluene (in ppmv)	< 0.050	0.050	ушфф	EPA 8260B	11/7/2005		
Ethylbenzene (in ppmv)	< 0.050	0.050	ymdd	EPA 8260B	11/7/2005	,	
Total Xylenes (in ppmv)	< 0.050	0.050	Amdd	EPA 8260B	11/7/2005		
Methyl-t-butyl ether (in ppmv)	< 0.10	0.10	Amdd	EPA 8260B	11/7/2005		
TPH as Gasoline	< 20	8	mg/m3	EPA 8260B	11/7/2005		
TPH as Gasoline (in ppmv)	< 5.0	5.0	hmdd	EPA 62608	11/7/2005		
Toluene - d8 (Surr)	97.4		*	EPA 8280B	11/7/2005		
4-Bromofluorobenzene (Surr)	105		*	EPA 8260B	11/7/2005		

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

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Distribution: White - Lab; Pink - Originator														



Date: 11/10/2005

Andrew LoCicero Blue Rock Environmental, Inc. 535 3rd Street, Suite 100 Eureka, CA 95501

Subject: 1 Vapor Sample Project Name: Cedar Stock Project Number: NC-17

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Project Name: Cedar Stock

Project Number: NC-17

Sample: Influent 11/3/05

Matrix: Air

Lab Number: 46778-01

Report Number: 46778 Date: 11/10/2005

Sample Date :11/3/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.23	0.20	mg/m3	EPA 8260B	11/5/2005
Toluene	0.22	0.20	mg/m3	EPA 8260B	11/5/2005
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	11/5/2005
Total Xylenes	0.23	0.20	mg/m3	EPA 8260B	11/5/2005
Methyl-t-butyl ether (MTBE)	2.9	0.20	mg/m3	EPA 8260B	11/5/2005
Benzene (in ppmv)	0.070	0.050	ppmv	EPA 8260B	11/5/2005
Toluene (in ppmv)	0.057	0.050	ppmv	EPA 8260B	11/5/2005
Ethylbenzene (in ppmv)	< 0.050	0.050	ppmv	EPA 8260B	11/5/2005
Total Xylenes (in ppmv)	0.053	0.050	ppmv	EPA 8260B	11/5/2005
Methyl-t-butyl ether (in ppmv)	0.80	0.10	ppmv	EPA 8260B	11/5/2005
TPH as Gasoline	130	20	mg/m3	EPA 8260B	11/5/2005
TPH as Gasoline (in ppmv)	.32	5.0	ppmv	EPA 8260B	11/5/2005
Toluene - d8 (Surr)	96.7		% Recovery	EPA 8260B	11/5/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	11/5/2005

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Date: 11/10/2005

Date

Analysis Method

Method Measured Reporting Value Limit Units

Parameter

QC Report: Method Blank Data

Project Name: Cedar Stock

Project Number: NC-17

		Method				
Parameter	Measured	Reporting	ng Units	Analysis Method	Date	
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	11/4/2005	
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	11/4/2005	
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	11/4/2005	
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	11/4/2005	
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	11/4/2005	
Benzene (in ppmv)	< 0.050	0.050	vmdd	EPA 8280B	11/4/2005	
Toluene (in ppmv)	< 0.050	0.050	ppmv	EPA 82608	11/4/2005	
Ethylbenzene (in ppmv)	< 0.050	0,050	ppmv	EPA 8260B	11/4/2005	
Total Xylenes (in ppmv)	< 0.060	0.000	ppmv	EPA 8260B	11/4/2005	
Methyl-t-butyl ether (in ppmv)	< 0.10	0.10	ppmv	EPA 8260B	11/4/2005	
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	11/4/2005	
TPH as Gasoline (in ppmv)	o 200	9.0	ppmv	EPA 8260B	11/4/2005	
Toluene - d8 (Surr)	97.2		8	EPA 8260B	11/4/2005	
4-Bromofluorobenzene (Surr)	104		*	EPA 8260B	11/4/2005	

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL, LLC

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APPENDIX C

Calculation of Residual Sorbed-Phase Contaminant Mass (Pre Treatment)

Cedar Stock Rsort, Trinity Center, CA Project No. NC-017

Zone 1 After Remedial Excavation Activities

Mean TPHg conc. (mg/kg)	A (ft²)	h (ft)	V (ft³)	p (lb/ft³)	TPHg mass (lb)
666	90.83	18	1,635	100	108.89
			Total TPHg (kg)		49.49
			Total TPHg (gals)		17.85

Zone 2 After Remedial Excavation Activities

Mean TPHg conc. (mg/kg)	A (ft²)	h (ft)	V (ft³)	p (lb/ft³)	TPHg mass (lb)
47	25.27	20	505	100	2.38
			Total TPHg (kg)		1.08
			Total TPHg (gals)		0.39

Zone 3 After Remedial Excavation Activities

Mean TPHg conc. (mg/kg)	A (ft²)	h (ft)	V (ft³)	p (lb/ft³)	TPHg mass (lb)
216	56.59	9	509.3	100	11.00
			Total TPHg (kg)		5.00
			Total TPHg (gals)		1.80

A = Area

h = thickness

V = volume = A * h

p = soil density (assume 100 lbs/ft3)

TPHg mass = V (ft³) * p (lbs/ft³) * Mean TPHd conc. (unitless)

TPHg = Total petroleum hydrocarbons as gasoline

Conc. = concentration

Ib = pound

mg/kg = milligrams per kilogram

kg = kilogram

gal. = gallons

ft. = foot